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THE ASTRONAUTS

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ON EPOCHAL
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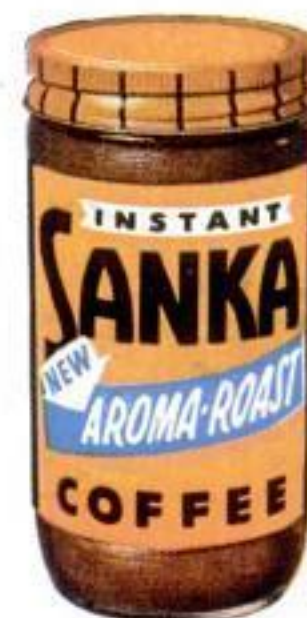
SEPTEMBER 14, 1959



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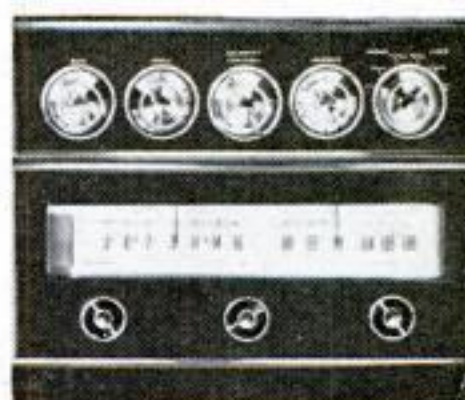
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ASTRONAUT SLAYTON IN CONTROL POSITION HE WOULD TAKE DURING RE-ENTRY

'LIFE' IS WITH IT IN A FAR-OUT ERA

We begin this week to report the personal side of a story which we know will live on in history as long as there are men to record it. It is the story of the Astronauts—the supremely dramatic story of man's first efforts to leave his native Earth.

The mission of journalist-historians is to be there when things happen—so, LIFE obtained exclusive rights to the first-person accounts by the Astronauts as they prepare for and make their flights into space. A LIFE team consisting of Staff Writer Loudon Wainwright, Correspondents Don Schanche and Patsy Parkin and Photographer Ralph Morse has been and will continue working with the Astronauts, helping them prepare their personal stories and documenting their experience in photographs and on-the-spot reports.

The first instalment of this momentous series which appears this week contains an article by each of the seven Astronauts telling why he volunteered and how he feels as he approaches his assignment. These remarkable human documents show the Astronauts are not only superb physical and psychological specimens but also thoughtful men. As one of them said, stepping from a training centrifuge after an eye-popping ride: "If any of us had begun to believe the stuff about our being supermen, we are learning different now."

In eight pages of color photographs we also show the lessons in skin diving and astronomy, the space capsules, their controls and the knockout G-forces which the Astronauts have to master as part of their training. Next week we will publish exclusive first-person statements by their wives.

The Astronauts are the shock troops of an explosive revolutionary era in which—as other stories this week show—hardly any facet of life is exempt from change. In our beautiful color story on the Russian Orthodox Church (pp. 102-126) we picture an ancient institution which, in a risky attempt to survive enforced changes, has allied itself with the unholy forces of Communism. Elsewhere we follow the President as he visits with leaders in Western Europe, dramatically trying to hold the world fabric together and make the ideals of the past obtain peace for the future (pp. 44-47). And from Detroit we have news of a change that most Americans are intensely curious about: the story of how the big auto makers are preparing to satisfy the demand for small cars (pp. 157-165).



MODERN RUSSIAN ORTHODOX MONKS IN FORMATION AT A MONASTERY

COVER

The Astronauts, standing together at Langley Air Force Base, are, top row, left to right: Walter Schirra and Alan Shepard; middle row: John Glenn, Scott Carpenter and Donald Slayton; bottom row: Gordon Cooper and Virgil Grissom (see pp. 26-43)

THE WEEK'S EVENTS

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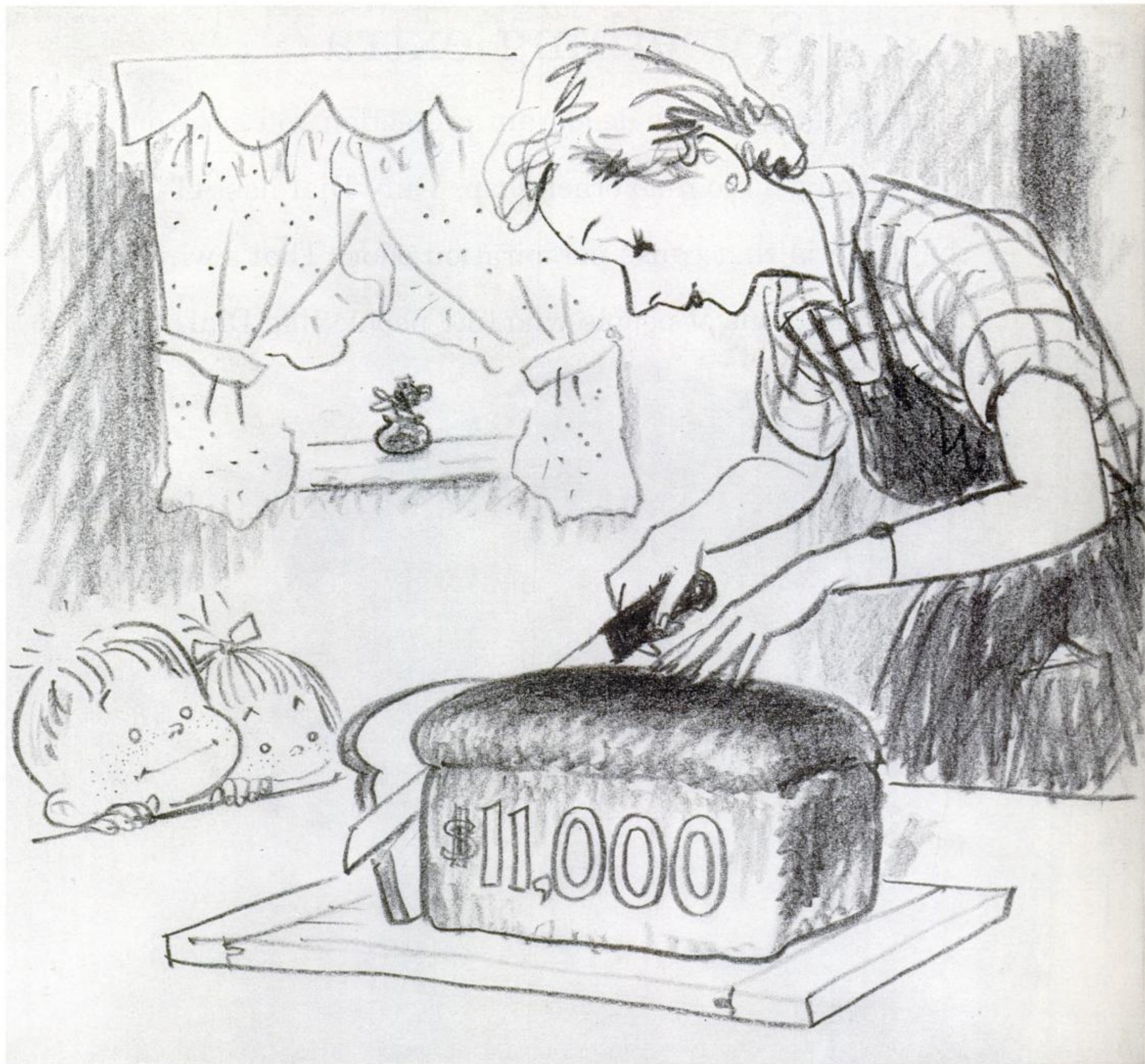


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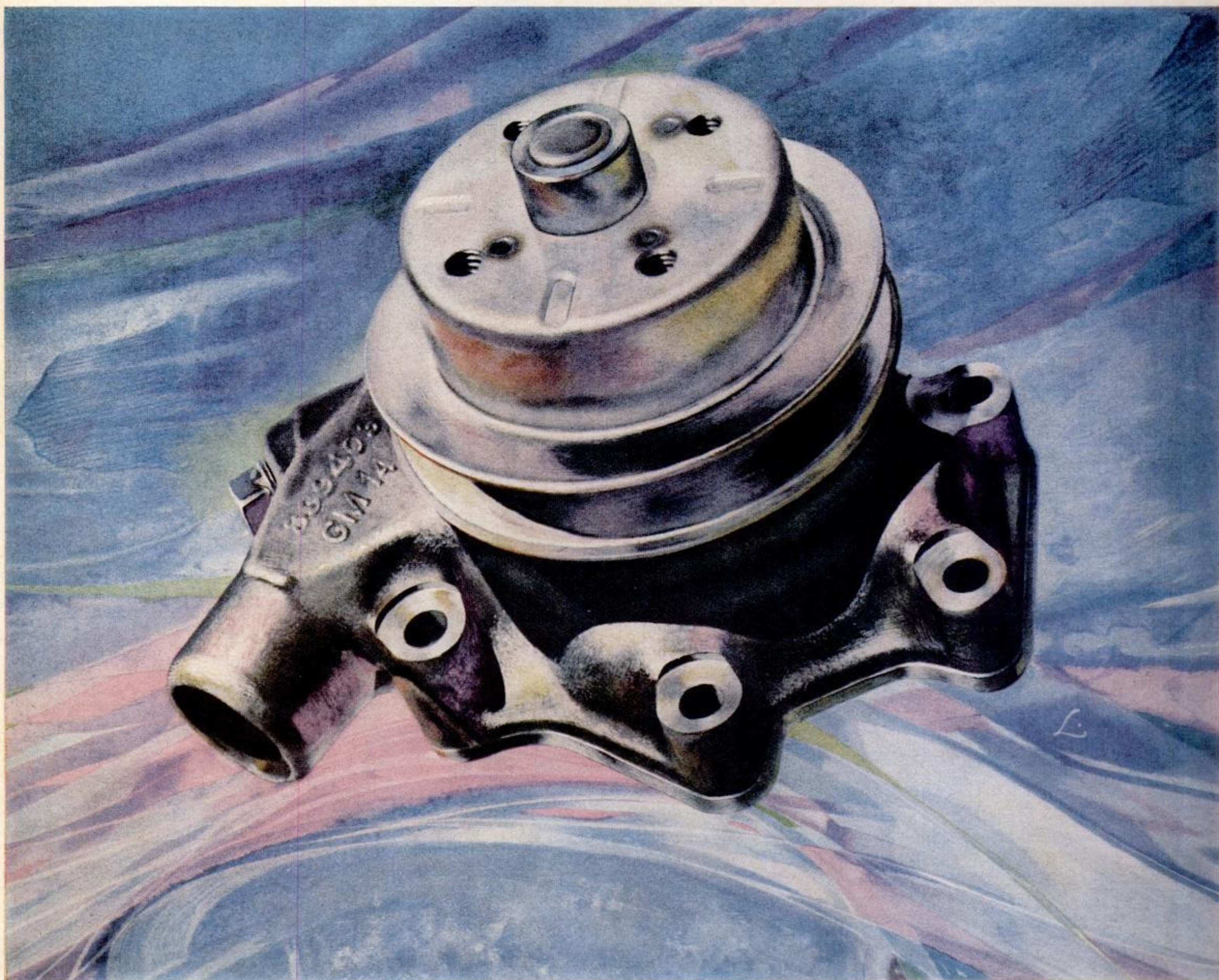
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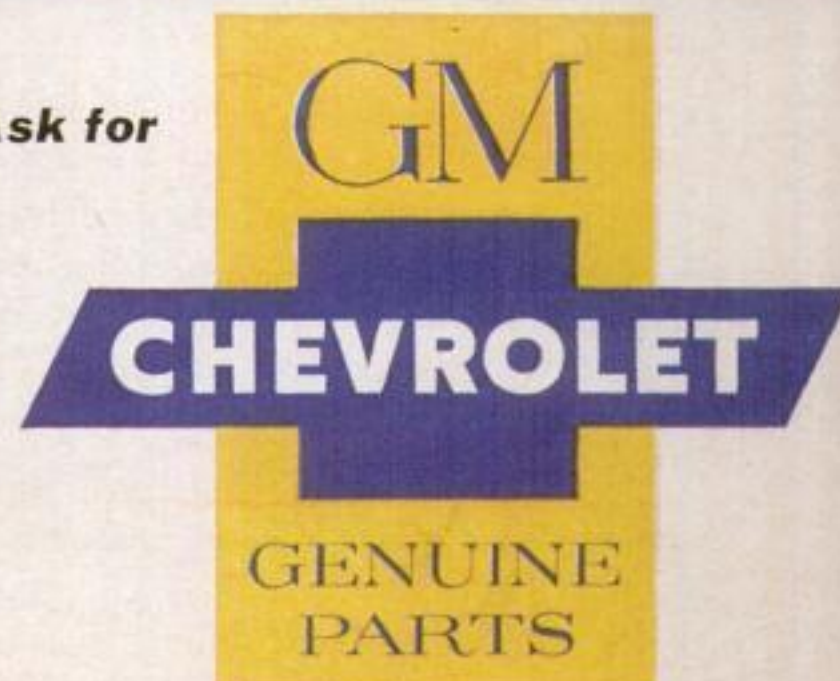
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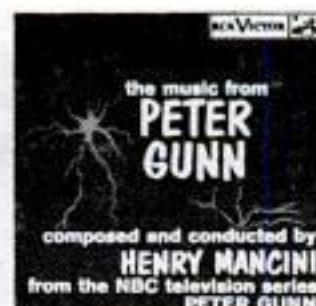
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5. All-time best-selling classical album by the extraordinary pianist who took Moscow and the world by storm.



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7. Stunning new recording of the dramatic 9-section suite from the award-winning TV score by Richard Rodgers.



8. Brand-new production of Kern-Hammerstein classic stars Gogi Grant, Howard Keel and Anne Jeffreys.



9. Operetta film stars remake their 12 biggest hits. *Indian Love Call, Will You Remember?, Rosalie, Wanting You.*



10. Lanza's latest and greatest—12 Italian favorites: *Funiculi, Funicula; Santa Lucia; Maria Mari; Voce e notte.*



11. Miller-styled modern repertoire. Ray McKinley. *Birdland, On the Street Where You Live, Mine, Anything Goes.*



12. New remakes of their biggest hits. *Jalousie, Skaters Waltz, Liebestraum, Ritual Fire Dance, España Rapsodie.*



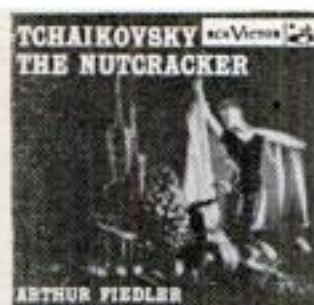
13. Dancing, listening delight. Sunny piano-with-rhythm medleys of fox trots, waltzes, lindys, by Porter, Kern, etc.



14. Fresh versions of 12 harmony hits: *Paper Doll, Love Is a Many-Splendored Thing, To Each His Own, etc.*



15. Lifting versions of *The Blue Danube, Artists' Life, Emperor Waltz, Tales from the Vienna Woods, Wiener Blut.*



16. Key highlights from Tchaikovsky's enchanting masterpiece for ballet (and the whole family). *Waltz of the Flowers, etc.*



17. On-the-spot recording. Yes, includes *Day In—Day Out* plus *It's All Right with Me, Mood Indigo, Honeysuckle Rose.*



18. 17 swaggering marches: *El Capitan, Semper Fidelis, On the Mall, On Parade, Washington Post, Jubilee.*



19. Lush, rhythmic, exotic instrumentals. *Valencia, Granada, Delicado, Come Closer to Me, Peanut Vendor, etc.*



20. His 12 biggest, newly remade. *Green Eyes, Linda Mujer, Adios, Oye Negra, Baia, Mambo No. 5, Night Must Fall, etc.*



21. Cha chas, hot and cool, by Prado's crackling big band. *Lullaby of Birdland, Flight of the Bumblebee, 9 more.*



22. Broadway's newest star sings the big songs from *Flower Drum Song, My Fair Lady, The Music Man, etc.*—12 in all.



23. Cha-cha versions of top Latin tunes: *Frenesi, Yours, Perfidia, Brazil, Tampico, Cuban Pete, Port-au-Pleasure, others.*



24. 12 pop favorites and light classics. *September Song, Warsaw Concerto, Diane, Tenderly, Too Young, Charmaine, more.*



25. Absolutely the last word in sound, performance—the greatest *Gaité* of all! Gayne excerpts include the *Sabre Dance*.



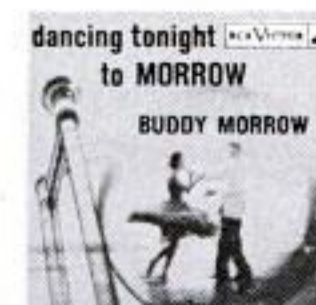
26. La MacKenzie sings 12 ballads. *Hey There, Ebb Tide, Too Young, Moonglow, Stranger in Paradise, Blue Tango.*



27. 12 dance-mood specials by famed Trio plus strings: *I'll Get By, I'm in the Mood for Love, Melancholy Baby, 9 more.*



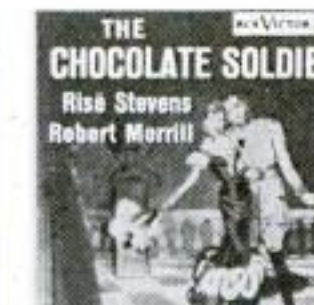
28. 12 plush, romantic mood setters for a bachelor apartment—*Pretty Baby, Thou Swell, Let's Put Out the Lights, etc.*



29. Big band, fat beat. 12 varied dance favorites by college prom king. *Margie, Sleepy Time Gal, I'll Be Around, Cherry.*



30. Colorful pipes, drums, Black Watch band in a sonic treat! Marches, folk favorites plus Harry Lauder medley.



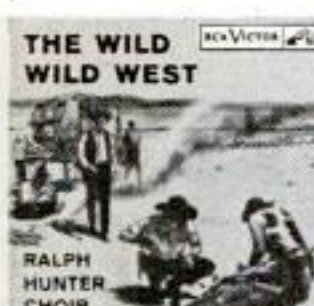
31. Handsome production of Strauss operetta stars Risi Stevens, Robert Merrill, Jo Sullivan. *My Hero, Sympathy, etc.*



32. Liquid sounds from Hammond organ. *Over the Rainbow, Ebb Tide, Sweet Leilani, Jalousie, Moonlight Cocktail, 7 others.*



33. Rich baritone of the Billy Graham Crusade sings *God Will Take Care of You, My Saviour's Love, God Is So Good.*



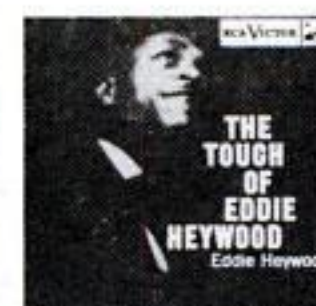
34. Fantastic sound, realistic atmosphere, familiar songs, virile singing. Different! *Red River Valley, 10 more.*



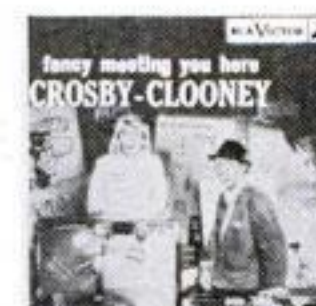
35. *My Man, Young and Foolish, They Say It's Wonderful, Yesterdays, Bewitched, The Thrill Is Gone, Summertime, more.*



36. 12 warmly sung inspirational songs: *He's Got the Whole World in His Hands, Whither Thou Goest, Scarlet Ribbons.*



37. Pianist's trio plays *Summertime, The Man I Love, All of You, Cherry, Pennies from Heaven, I Cover the Waterfront.*



38. Standards plus special material, fun-filled as lib, sassy Billy May. *Scoring, Isle of Capri, Hindustan, Brazil, etc.*



39. 12 airy dance specials. *Once in Love with Amy, That Old Feeling, Dream Boat, Midnight Sun, Heartaches, others.*



40. Wacky banjo-pickin' country comics fracture hit songs, special material. *Oh Lonesome Me, 11 more laugh getters.*



41. Laugh a second! Kraut-sour German band plays (?) concert pieces, waltzes, marches, polkas, etc., in highest fi.



42. Suave, modern big-band jazz; top West Coast stars. *Chances Are, Everybody Loves a Lover* plus 10 other recent hits.



43. Warm, relaxed jazz by trumpeter Braff plus Roy Eldridge, Hank Jones. *Yesterdays, Willow Weep for Me, etc.*



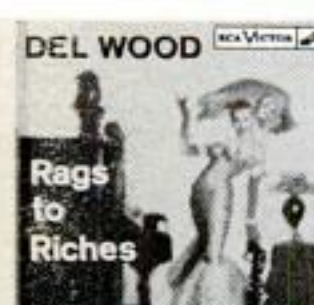
44. Bob swings, Clancy sings *Shine on Harvest Moon, Put on Your Old Gray Bonnet, The Whif-fen-poop Song, 8 more.*



45. Ultraromantic piano with orchestra. *They Can't Take That Away from Me, Autumn in Rome, Secret Love, 12 in all.*



46. 12 love songs. *Time on My Hands, In Love in Vain, You Are Too Beautiful, You're My Girl, I'll See You Again.*



47. Happy honky-tonk piano versions of *My Gal Sal, Side by Side, Ace in the Hole, Hello Ma Baby, Charmaine, 7 more.*



48. Hilarious musical satire, caricature plus commentary by Henry Morgan. *Gunsmirk Suite; Anvils, of Course, more.*

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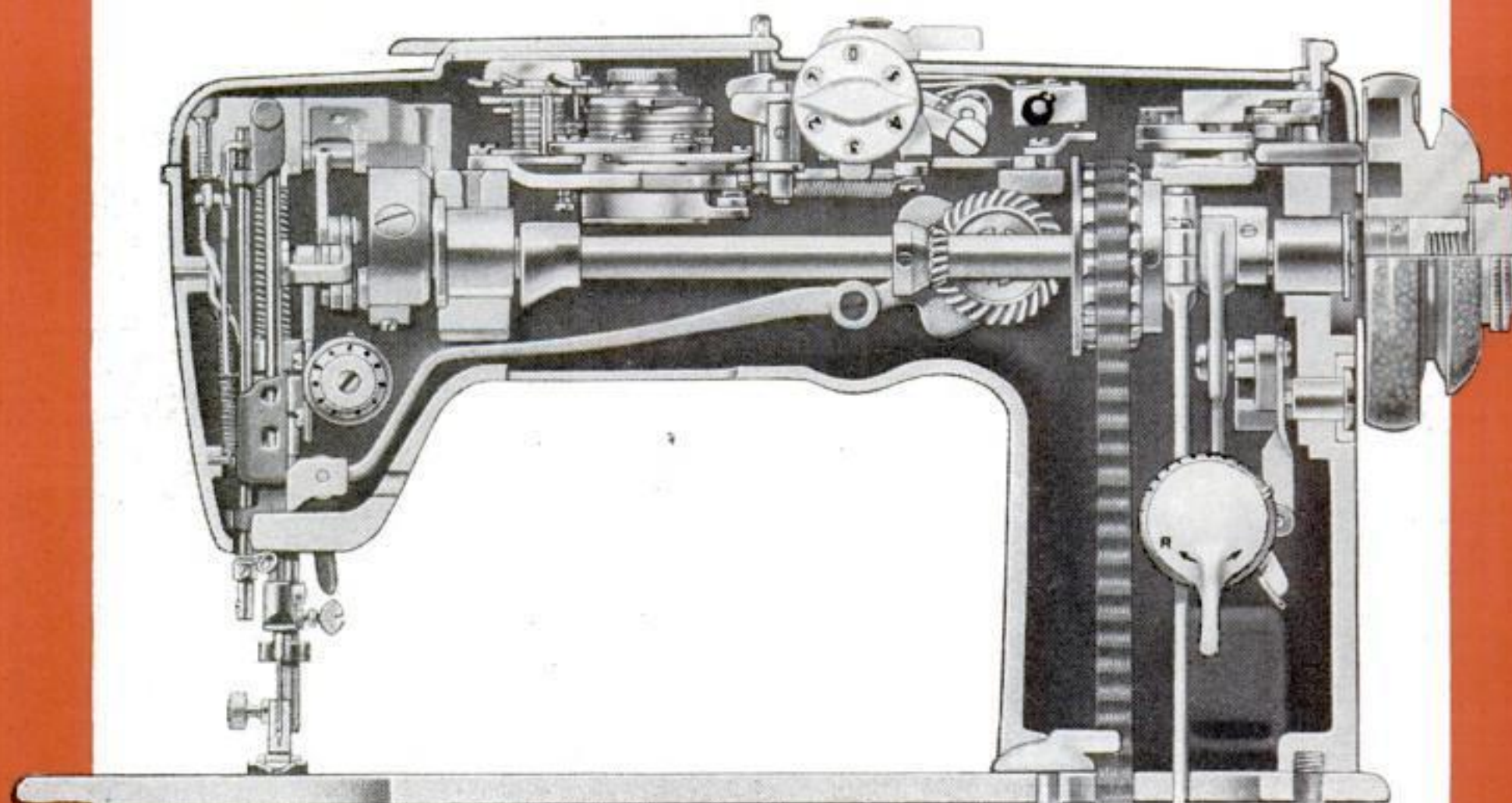
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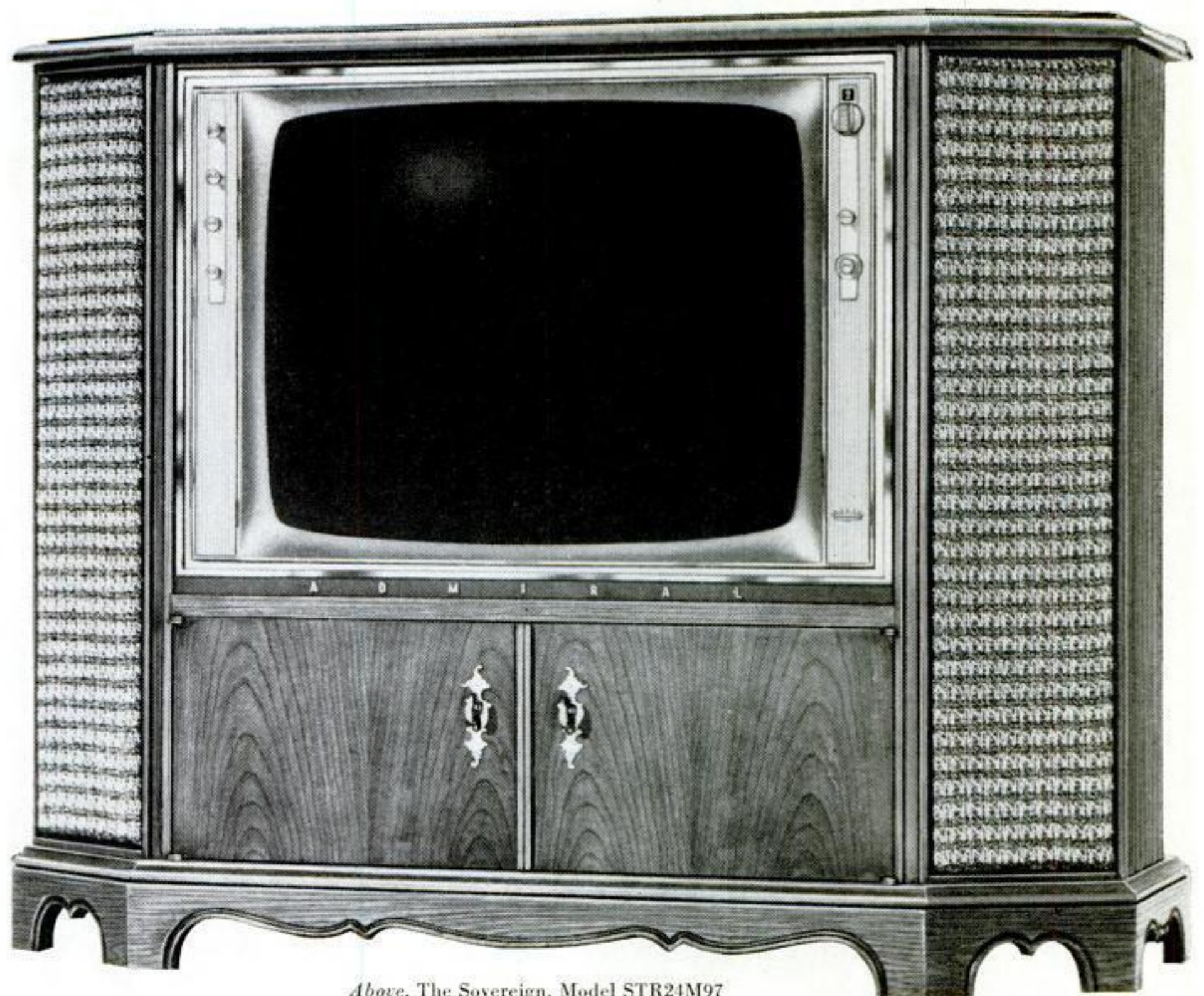
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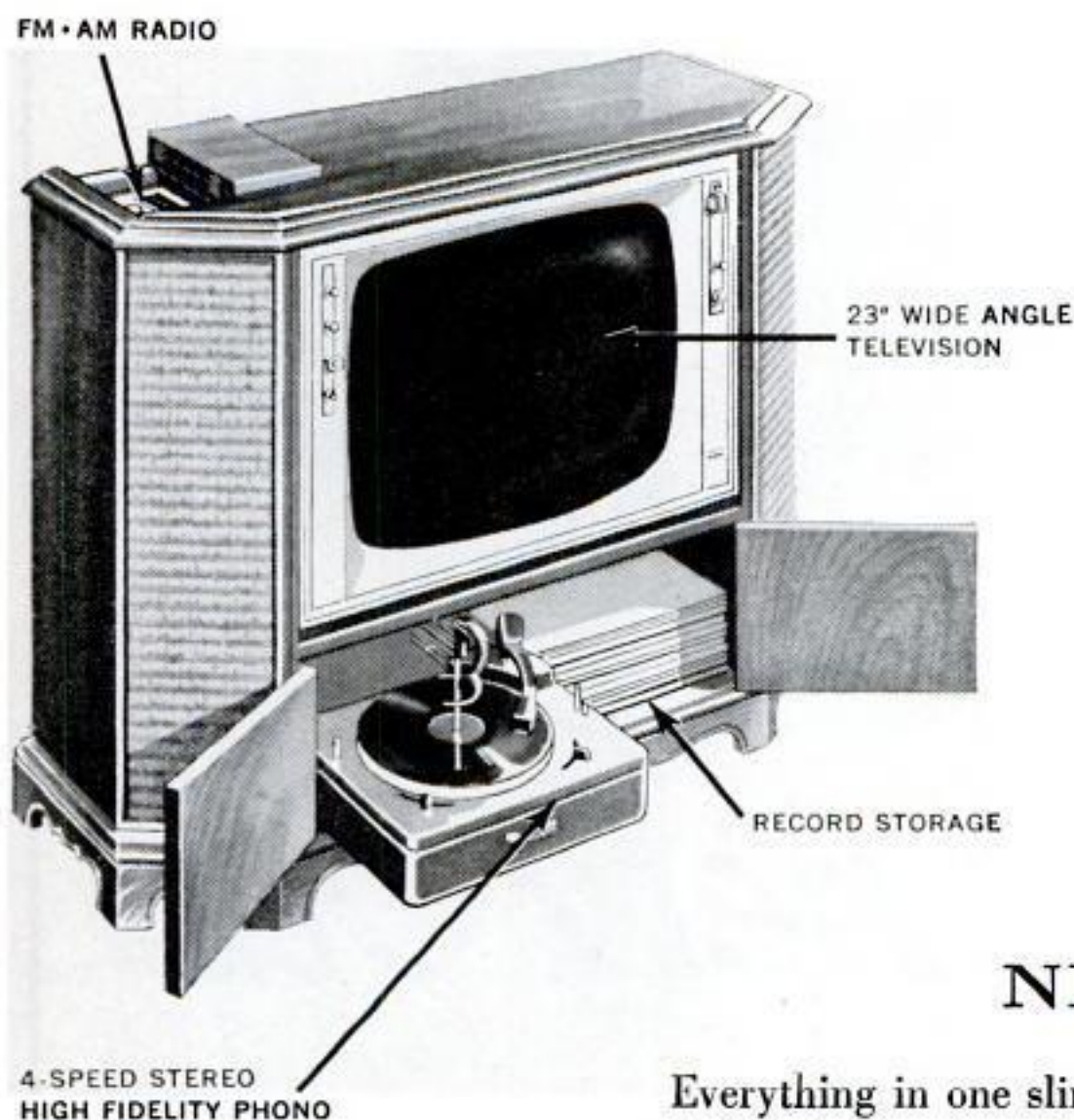
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NEW 1960 STEREOPHONIC THEATRE

Everything in one slimline cabinet of rare beauty!

- *Admiral's new wide angle 23 inch TV* with squared corners like a movie screen. Now see all the picture the stations send out—20 square inches more than ordinary 21 inch TV. New picture brilliance and clarity because there's no external plastic or glass plate in front of the tube to dim the picture. An optic-filtered safety glass *lifetime sealed* to the picture ends dirt and reflection headaches forever. The tube is right out front—not deeply recessed—so you can

see the picture from anywhere in the room.

- *Slide-out stereo phonograph* plays new stereo records and your present hi-fi records with new brilliance. Four quality stereo speakers give ranges of tone you'd expect only in a professional sound studio. Storage section holds complete \$360.00 stereo record library!

- *FM/AM radios* with top-of-the-set tuning. To own this masterpiece from Admiral is to own the world's finest home entertainment center.

*New picture tube, 23" overall diagonal, 282 sq. in. viewable area

MARK OF QUALITY  THROUGHOUT THE WORLD



ADMIRAL

Admiral® Sold in 90 countries... Manufactured in the U.S.A., Argentina, Australia, Brazil, Canada, Italy, Mexico, Philippines, and Uruguay. Admiral Corp., Chicago 47, Ill., and Port Credit, Canada.

WHEN SALES DOUBLE IN 30 DAYS THERE'S GOT TO BE A REASON!



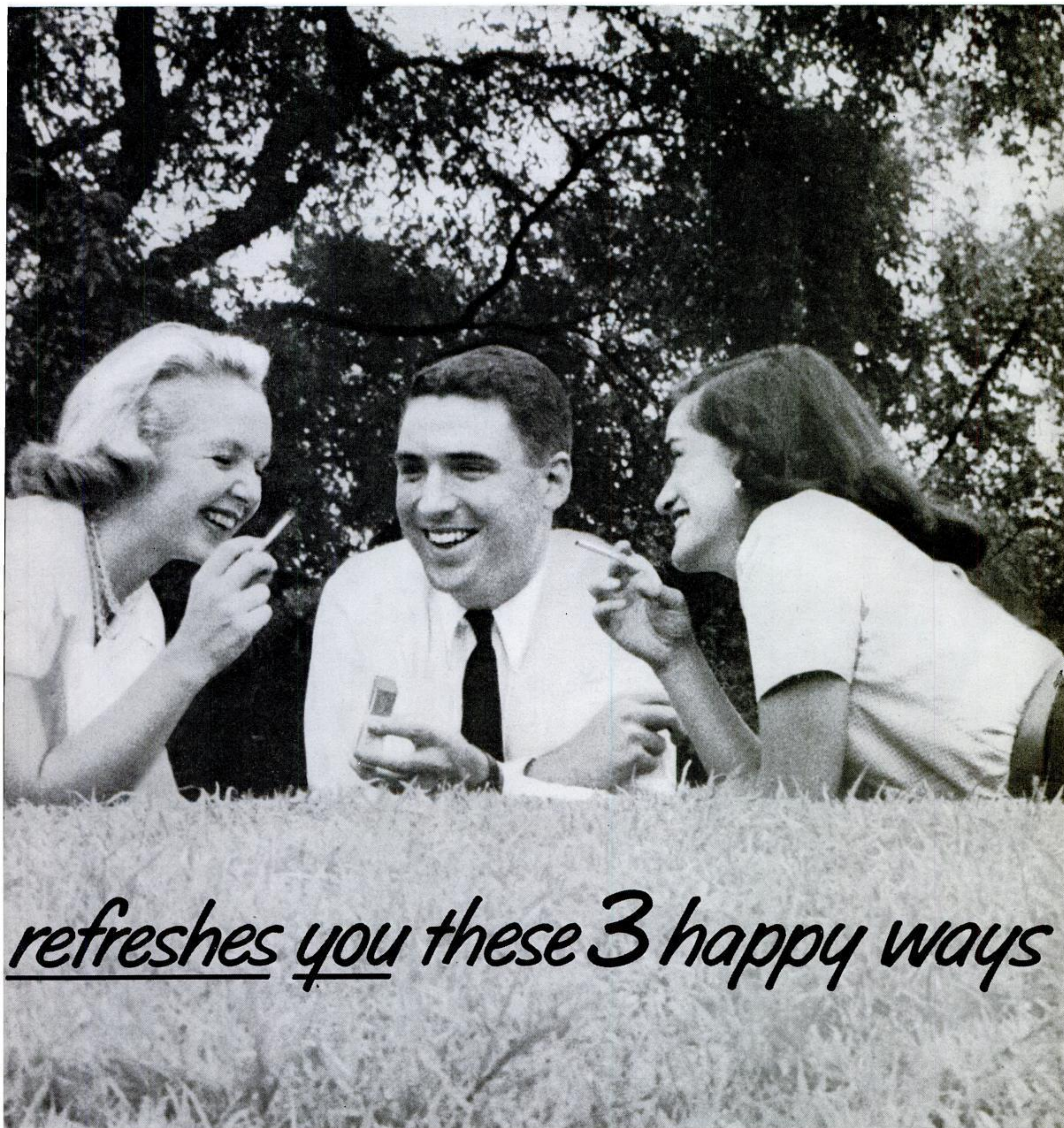
Only new Oasis

Suddenly it seems almost everyone is smoking new Oasis!

In 30 days sales have zoomed, boomed and soared to *double* what they were just a few weeks ago. It's the biggest news in Menthol cigarettes.

What's the reason for this amazing success? A refreshing new taste that seems to be exactly what people want—lighter, fresher, softer! Try new Oasis today.

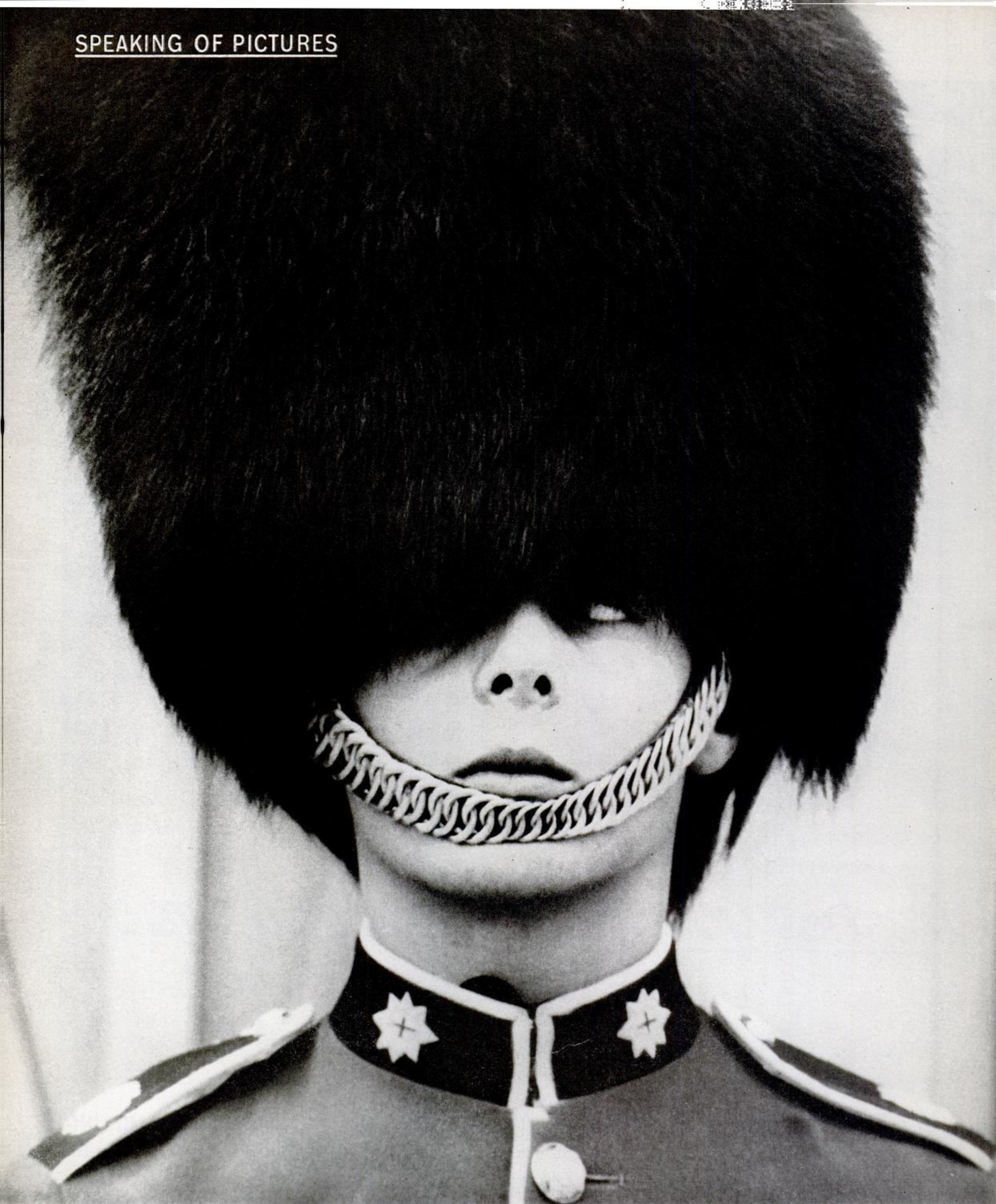
GET AWAY FROM THE EVERYDAY IN SMOKING WITH



refreshes you these 3 happy ways

- 1 NEW LIGHTER SMOKING!**
Lighter because only new Oasis gives you a superb blend of rich tobaccos lightly cooled with Menthol Mist.
- 2 NEW FRESHER SMOKING!**
Fresher thanks to Oasis' own Air Porous paper . . . exactly right to freshen your smoke even more.
- 3 NEW SOFTER SMOKING!**
Softer because its super-fine Fresh Air filter smooths and gentles your smoke as never before.

NEW OASIS...REFRESHMENT AT ITS VERY BEST!



Eyes Out for Trouble

It was a sight most people, staring at the ramrod-stiff guards at Buckingham Palace, never see. But with a telephoto lens, Photographer Philippe Le Tellier caught one guard shifting



his eyes left and right, violating the rule that a guard at attention always looks straight ahead. What he saw was a symptom of a distressing change that had taken place at the palace.

London tourists usually keep their distance and gape in awe. This summer they have poked and pinched the guards to prove they are real. One lady provoked a guard into kicking her, be-

cause, he said, she had been "sniggering" at him. All this had its effects on the soldier above, who is looking out from beneath his bearskin for tormentors in either direction.

Because
no one speed
is right
for every beard

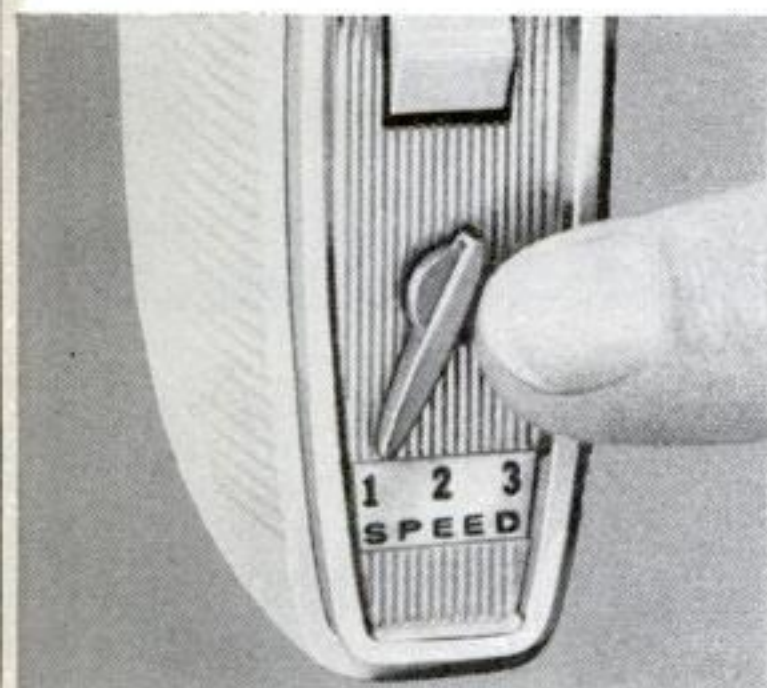
NEW SCHICK



3 SPEED RAZOR

First and only electric razor
that lets you shift the speed
and adjust the shaving head
to shave as close, as fast as
you like!

SET
THE SPEED...



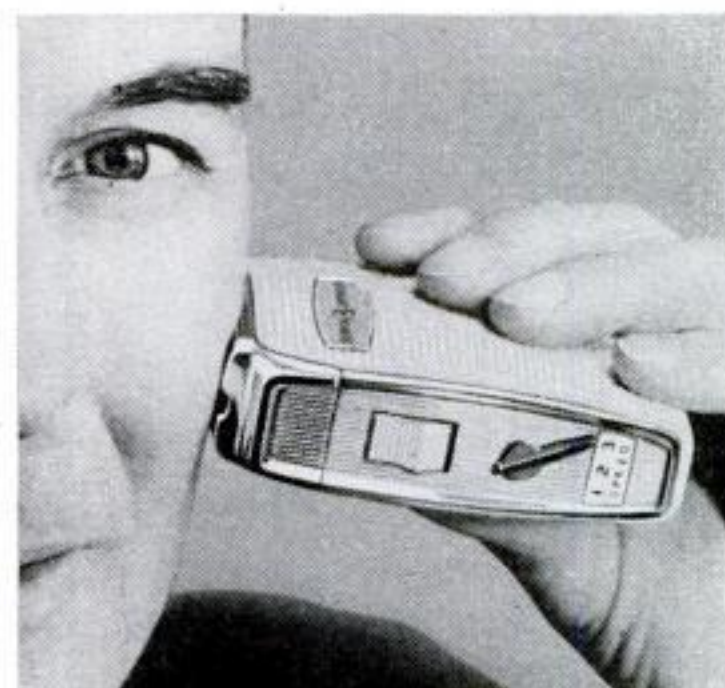
New! 3 Speed Control—You pick the speed that shaves you best. Three settings let you change the *shaving action* to fit your particular skin and beard.

SET
THE HEAD...

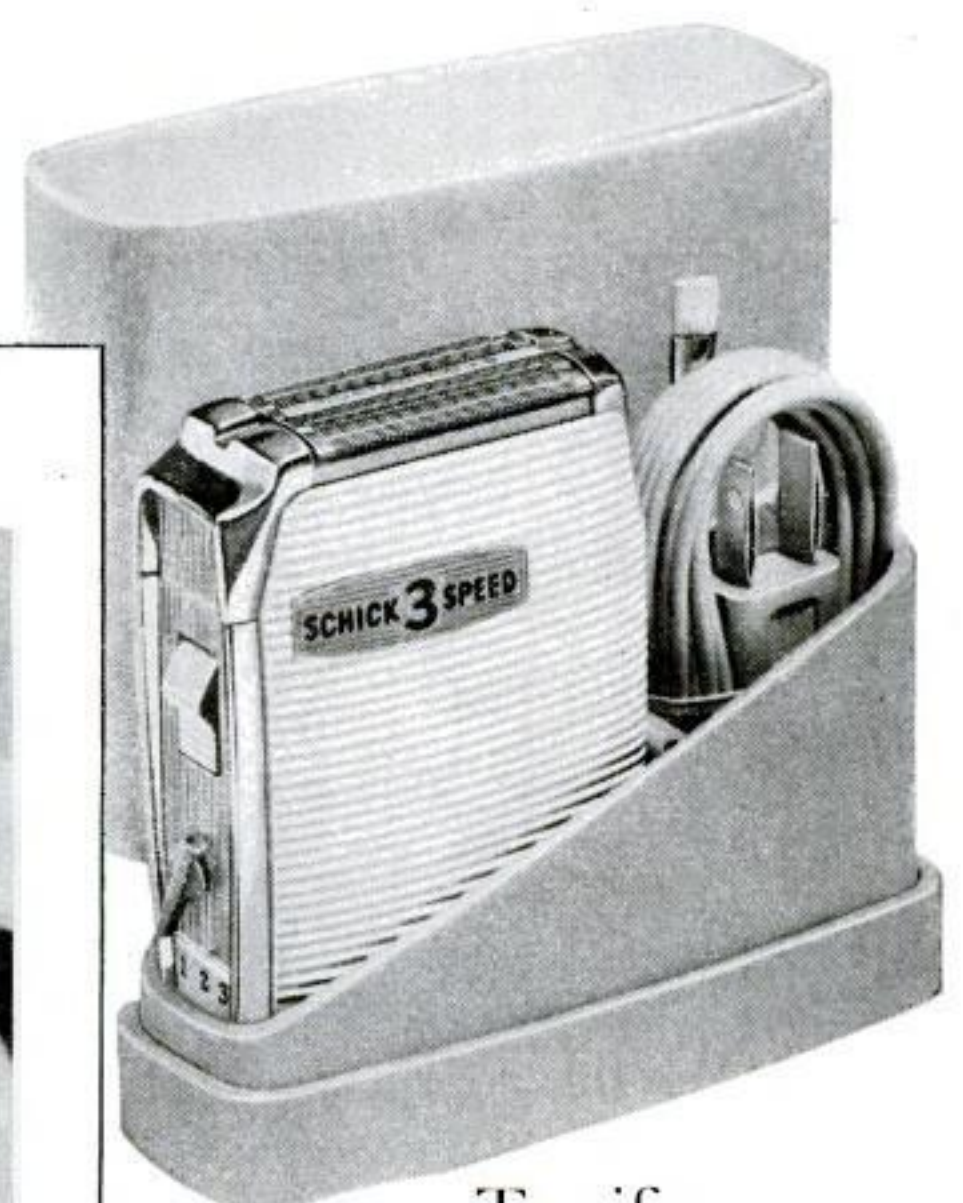


New! Adjustable Custom-Comb Head—With Schick, you adjust the shaving head itself. You change the *shaving angle* to fit your particular skin and beard.

GET THE SHAVE
THAT FITS YOUR FACE



It's the combination that counts! Speed control *and* head control. Only SCHICK 3 SPEED has both. That's why only SCHICK 3 SPEED lets you shave as close, as fast as you like.



Terrific
back-to-school gift!

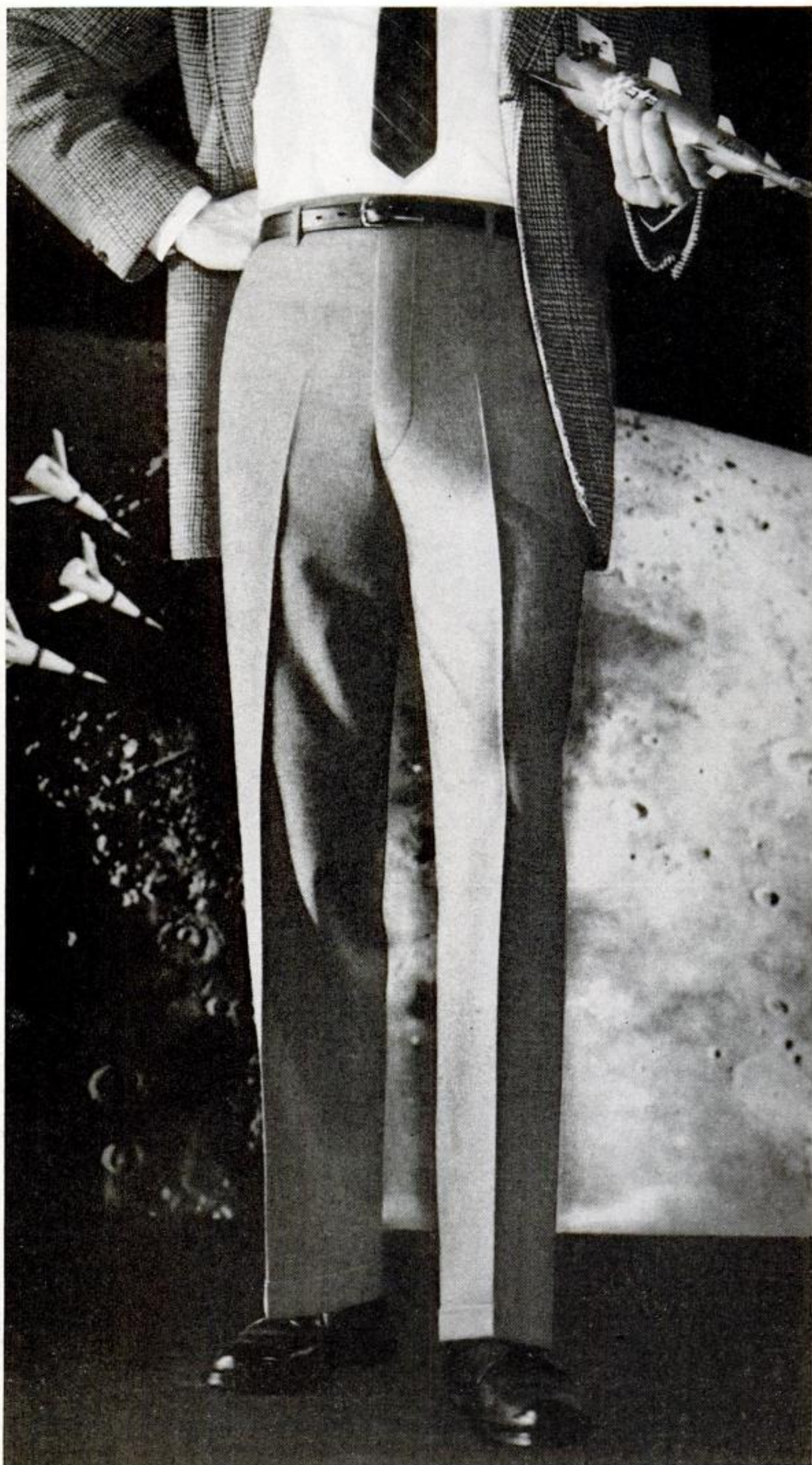
*See your dealer
for a free
demonstration.*

©1959, Schick Incorporated; Lancaster, Pa.

No matter how tough your beard or how tender your skin, here is the only razor with both speed and head adjustments to shave you best.

HAGGAR

FORECAST worsted flannels of 70% "Orlon", 30% wool can be machine-washed, machine-dried, need little, if any, pressing. Also dry-cleanable. In rich fall shades, about \$10.95 at fine stores.



THE AGE OF "ORLON"...

LUXURY WITH PRESS RETENTION

The Space Age is here... and these new fall slacks are right up to date because they have the scientific advantages of "Orlon" acrylic fiber. Modern "Orlon" gives them a new luxury feel and look, plus great crease and shape retention, new wrinkle recovery. Add longer wear and automatic wash 'n' wear convenience, and you have slacks that make all others seem old-fashioned. See them today!



BETTER THINGS FOR BETTER LIVING
... THROUGH CHEMISTRY

ORLON®

ACRYLIC FIBER

*Du Pont's trademark. Du Pont makes fibers, not the fabric or clothes shown.

LETTERS TO THE EDITORS

FIGHT MOB

Sirs:

Exposure of the mob in control of American boxing in "Ingemar Fingers the Fight Mob" (LIFE, Aug. 24), is only one of many reasons LIFE is a truly great publication.

H. C. RANKIN

Elyria, Ohio

Sirs:

Of all the dirty and underhanded deals to hand to a friendly foreigner—what kind of an effect do you suppose that will have on others of all nations?

MRS. G. H. WILKE

Burton, Texas

Sirs:

Congratulations for letting Ingemar tell his story. I hope it will help bring about some badly needed remedies and consequently restore the faith of my Swedish countrymen in the basic sense of fair play of this nation.

ARNE LINDSTROM

Manitou Springs, Colo.

Sirs:

It appears we now have a champion with something on his shoulders other than vegetable marrow.

JOANNE M. BURNHAM

Newark, Del.

Sirs:

Ingemar Johansson's righteous anger at the racketeers in boxing arouses my amusement. Just what sort of individual would he expect to find in an industry predicated on one human being's attempting to inflict a brain concussion on another?

LARRY M. AGRANOVE

London, Ont., Canada

Sirs:

As one who had once been close to Irving Kahn, I was annoyed by Ingemar Johansson's remarks. Irving Kahn was an ambitious youth, but he also knew that success depended on hard work and in this area he never was one to shirk. I feel Ingemar was simply outdone in a business dealing—due perhaps to thinking that instead of these men dealing with a "Swedish bumpkin," he could outdo a couple of "Yankee traders."

VINCENT P. STROUD

Riverside, Calif.

● His terms having been met and having received the accounting he

CONTINUED

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HAGGAR

"FORECAST" FLANNELS



Luxurious SLACKS

you wash and wear!

70% ORLON* 30% WORSTED

Beautiful, practical Haggar "Forecast" Flannels are completely machine washable and machine dryable... need little, if any, pressing. Luxurious slacks with the look and feel of finest flannels... tailored for perfect fit in new Ivy and beltless Tourney Models. \$10.95 and \$12.95.

*Orlon is DuPont's registered trademark for its acrylic fiber.

HAGGAR

Slacks

HAGGAR COMPANY • DALLAS

We Are Going to Employ 8500 More Part-time People in the Next 3 Months

...\$140 per month minimum earning opportunity... 4 hours daily... 5 days per week

THE QUALIFICATIONS for employment are simple: a high-school education, experience in P. T. A., teaching, church or Sunday school, club or community work, scouting, or social service organization work. No business experience is necessary.

In these four hours daily you will have an opportunity to earn a minimum of \$140 per month. If you wish to devote more time to the work, your earnings can be commensurately higher. In fact, if those selected can devote full time, the chance for advancement is excellent, leading to supervisory and management positions. The work is pleasant and worthwhile; it is also stimulating and rewarding in its personally gratifying service to school children, parents, and schools.

F. E. Compton & Company is a well-known international educational organization which has been in successful operation for more than half a century. Three major reasons have now impelled it to adopt a plan for greatly increased expansion — first, the vastly higher birth rate, meaning more children of school age each year for the fore-

seeable future; second, overcrowded classrooms, overworked teachers, and understaffed schools; third, parents' concern for their children's education and future and their increasing awareness that colleges and universities are becoming so overcrowded that we are rapidly approaching an era when the percentage of high-school graduates accepted for college enrollment will become progressively smaller.

These conditions have stimulated an ever-widening demand for the Compton Five-Point Educational Service Program. And this demand has opened up new positions for the 8500 men and women who will be employed during the next three months. The openings are available throughout all sections of the United States, in Canada, and in Europe.

If you are interested in learning more about these desirable and profitable positions, please mail the coupon. It will bring you full information without, of course, obligation of any kind.

F. E. COMPTON & COMPANY

**Compton Building
Chicago 10, Illinois**

.....
Personnel Director

**F. E. Compton & Company
Compton Building, Chicago 10, Illinois**

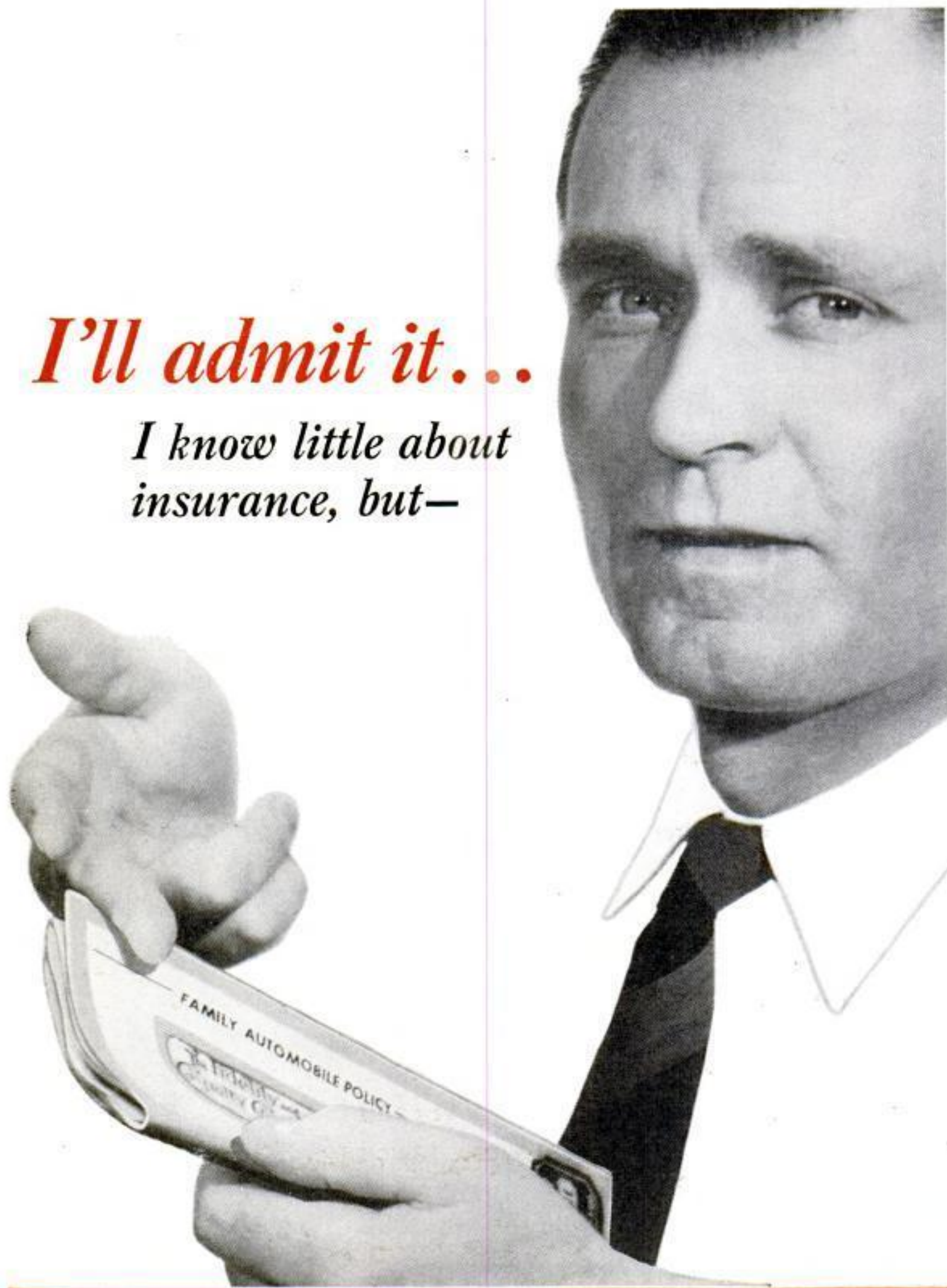
Without obligation of any kind, I would like to know more about the interesting and profitable part-time positions you have open.

Name.....
(Please Print Plainly)

Address.....

City.....Zone.....State.....

I'll admit it...
I know little about
insurance, but—



... I do know that I can't afford to lose the money I've put into my home, my savings or other things I own, to satisfy a claim for some accident.

So I play it safe! I take my insurance problems to an insurance expert, the same as I go to a doctor when I'm sick or to a lawyer when I need legal advice. I give him the facts and answer his questions.

Then after he has analyzed them, he tells me what coverages I need and in what amounts... and explains fully just how I'm protected.

Yes, I think it is wise to deal with an **INDEPENDENT INSURANCE AGENT** who is a specialist in his field. For then you get professional advice; can talk things over when necessary, and most importantly you have a friend nearby ready to guide and help you should you have a loss.



For the name of a nearby America Fore Loyalty Group insurance agent, call Western Union by number and ask for Operator 25.

**America Fore
 Loyalty Group**

THE CONTINENTAL INSURANCE COMPANY • FIDELITY-PHENIX INSURANCE COMPANY
 FIREMEN'S INSURANCE COMPANY OF NEWARK, N. J. • NIAGARA FIRE INSURANCE COMPANY
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 ROYAL GENERAL INSURANCE COMPANY OF CANADA • THE YORKSHIRE INSURANCE COMPANY OF N. Y.
 SEABOARD FIRE & MARINE INSURANCE COMPANY

LETTERS TO THE EDITORS

CONTINUED

demanded, Johansson signed a contract with Kahn's group to fight Patterson in the U.S. in 1960.—ED.

MOSS HART'S FLOP

Sirs:

I read your article on Moss Hart ("Famous Playwright's First Awful Flop," LIFE, Aug. 24) with great delight as I lived and worked at the Flagler Hotel in South Fallsburg, N.Y. when Moss Hart was Director of Entertainment and Activities there.

I have a program of the *Flagler Scandals of 1929*, directed by Hart, in which he and Dore Schary, significantly, appeared in a skit called "How It All Started" and in which I was a Futuristic Flapperette!

VICKI R. BARSKY

South Fallsburg, N.Y.

Sirs:

In the picture below, you identified Peter Lind Hayes but did you notice the other luminaries who were largely unknown then?

JAMES J. DiSTEFORA

Brooklyn, N.Y.

● The other luminaries, familiar to TV viewers and movie-goers, are (below, reading counterclockwise from Mr. Hayes at upper right) Karl Malden, Marc Daniels, Edmond O'Brien, Don Taylor, George Petrie and Alfred Ryder.—ED.



FUTURE LUMINARIES

EDITORIAL

Sirs:

Your perceptive editorial, "What New Eisenhower?" (LIFE, Aug. 24), is a magnificent tribute to a great President.

It becomes increasingly clear that the President has no political ax to grind and that his chief goals are abundance without inflation at home—and world peace.

ESTELLE POWERS

Columbia, Mo.

IKE'S AMERICA

Sirs:

I was surprised and disappointed to see that the President failed to include in his suggested itinerary for Nikita Khrushchev a single educational or cultural institution ("Eisenhower Guide to his Soviet Guest," LIFE, Aug. 24).

A look at the intellectual freedom in our schools, colleges and universities and at the artistic variety in our theaters and museums would reveal to the Soviet premier more of the essence of the American way of life than a parade of material wealth and comforts.

JOHN C. LANE

New York, N.Y.

CONTINUED

Want a quick-dry contour bra? You need

PETER PAN
HONEYCOMB™
 with amazing Plenium™



Drip-dry broadcloth... nylon lace... wonderful Plenium—all dry really fast! And soft, light, cool Plenium* cups shape to you, and shape you beautifully! Elasto-net™ cup rim expands, contracts, as you move—gives never-before comfort! Only 3.95



*AERATED, PURIFIED POLYURETHANE

no body is perfect...every body needs Peter Pan
 PETER PAN FOUNDATIONS, INC. • NEW YORK • MONTREAL

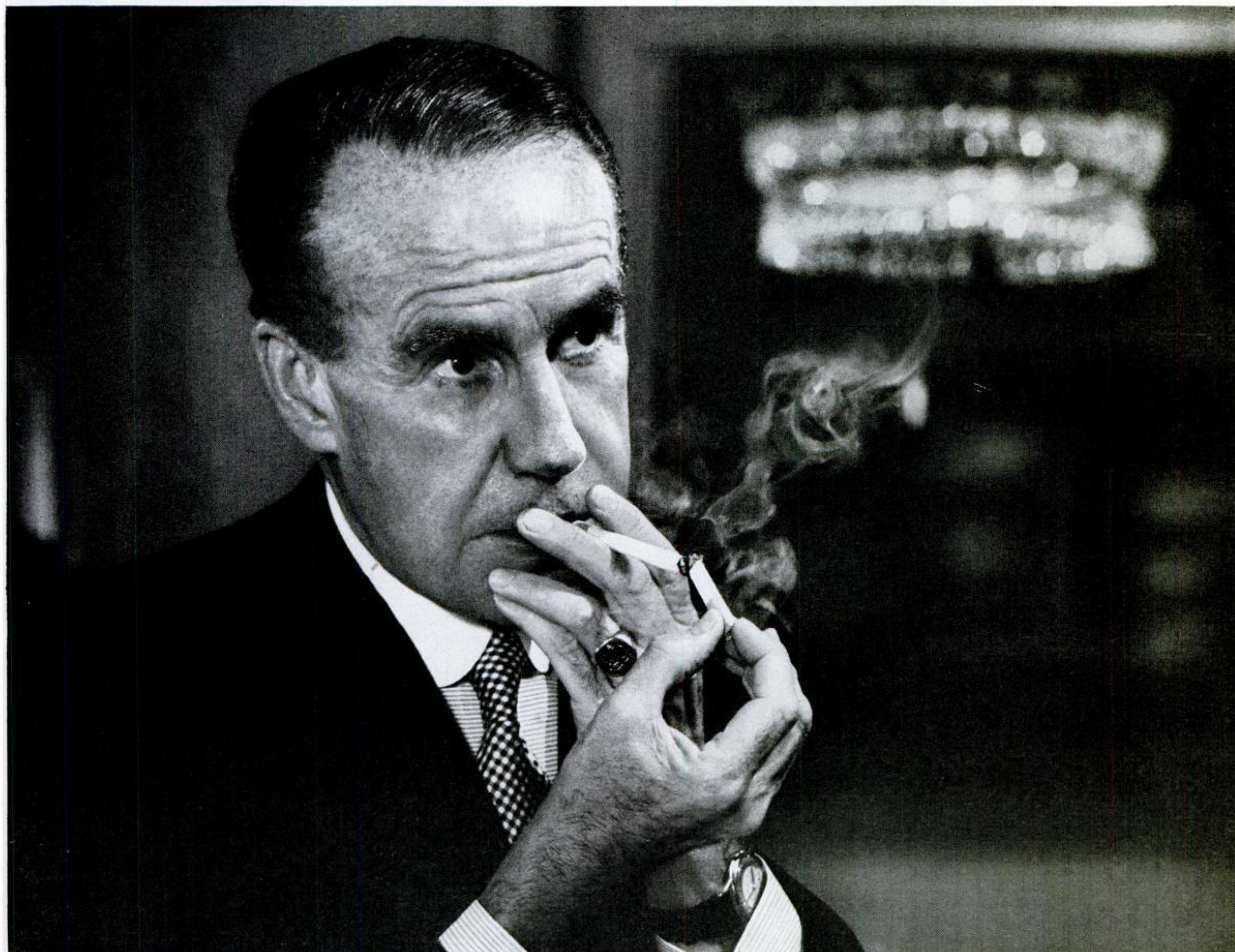
EXQUISITE Lightweight LUGGAGE
GLOBESTER
 BALTIMORE 1, MD.

busy bodies need...
 EXECUTIVE OFFICES
 Finance Bldg., Phila., 2, Pa.
BEMCO®
 The Mattress of Tomorrow, Today!

The RAILROAD Sock
 REG. U.S. PAT. OFF.
 The finest men's socks and underwear you can buy

RELIEF If Your
FALSE TEETH
 Hurt... Slip... Don't Fit...
 Chew In Comfort with Softer
EZO Dental Cushions
 Grips Dentures Firmer, Quicker!
 Helps Keep Seeds Out
 Helps Ease Pressure on Gums
 Helps Plate Fit Snug
 Helps Prevent Clicking
 Need a thicker cushion for your lower plate?
 Ask for New EZO Heavy Gauge Cushions!
 AT YOUR FAVORITE DRUG COUNTER 60c

Think you're smoking too much?

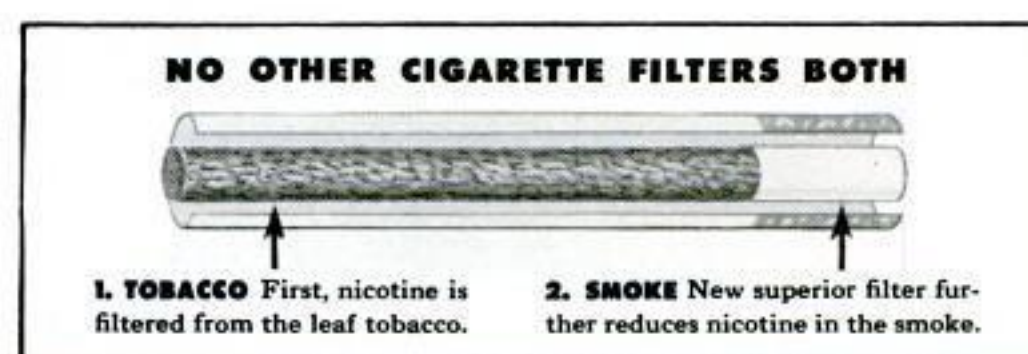


John S. Young, former U. S. Diplomat, enthusiastic advocate of King Sano.

Now....cut nicotine in half ...and still enjoy your smoking

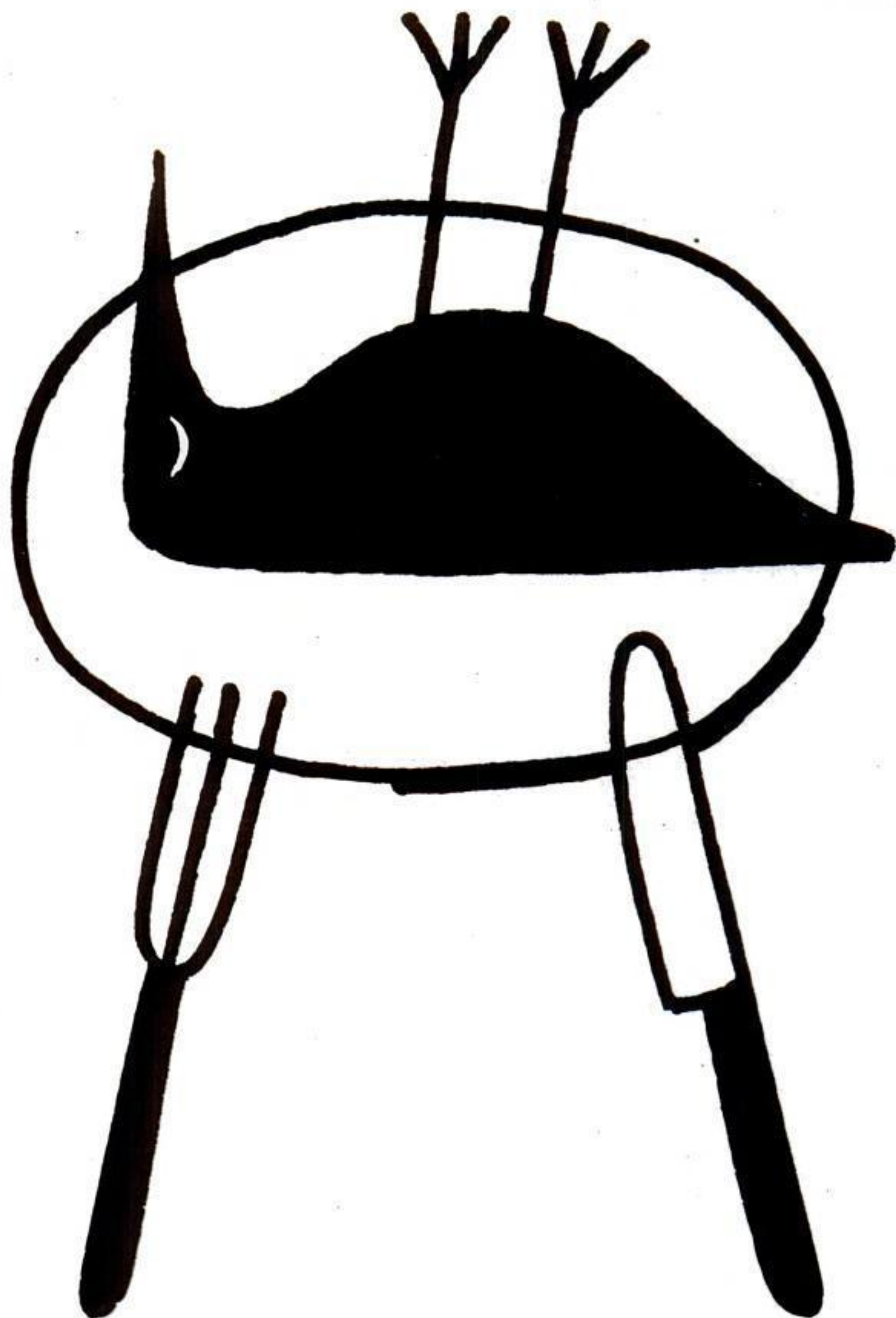
Start today! You can smoke a whole pack of 20 King Sano Cigarettes...and get less nicotine than with 6 to 12 cigarettes of any other brand. Now cut nicotine in half, without cutting down the pleasures of smoking. Costs a few cents more...and well worth it! Only King Sano filters twice, filters both the tobacco...and the smoke.

Note: The nicotine in the smoke of King Sano is less than half that of the average of all leading brands, when 47 millimeters of each cigarette are smoked. This is based on a continuing study by Stillwell & Gladding, Inc., Independent Analytical Chemists.



UNITED STATES TOBACCO COMPANY ALSO PRODUCES SANO CIGARS AND SANO PIPE MIXTURE

lobri



I'm eating crow
I forgot to bring her
seamless stockings

by *Stanes*

after dinner, gourmet, go out and get her some.

LETTERS TO THE EDITORS

—CONTINUED—

Sirs:

It is unfortunate that precisely at the moment when the Free World begins to rally against the onslaught of Communism, Mr. Eisenhower chose to boost Communism's shaky position by inviting its top henchman to visit him.

JULIUS R. SMETONA
Cleveland, Ohio

Sirs:

The millions of us who have worn the uniform of our armed services were taught that saluting an officer was a courtesy due to the rank or position he represented and not a mark of respect for the individual inside the uniform. It seems to me that we should look upon the courtesies to be extended Mr. Khrushchev in the same way.

We must show the Russian people by our courteous reception of their leader, regardless of our opinions of him as an individual, that we do want peace.

WILLIAM V. FRAZIER JR.
Martins Ferry, Ohio

JACKIE KENNEDY

Sirs:

We enjoyed those fine pictures of the beautiful Jackie Kennedy ("John Kennedy's Lovely Lady," LIFE, Aug. 24). As an employee of the Washington Post & Times Herald I want to point out, however, that Jackie never worked for us as the inquiring photographer. She worked for the old Washington Times-Herald which we bought in 1954.

PAUL I. RAINES
Washington, D.C.

Sirs:

Congratulations to Jackie Kennedy for her theory on child-rearing—love, security and discipline.

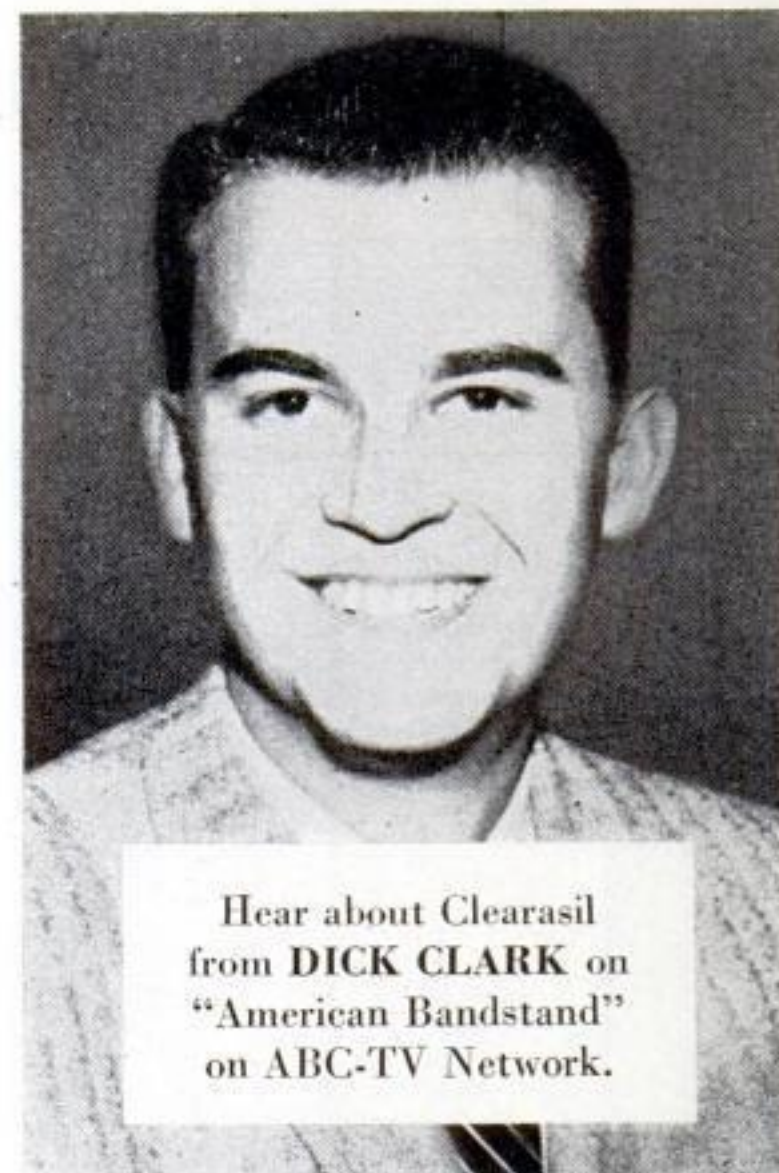
CHRISTOS DIXIE
Dallas, Texas

Sirs:

Your article about the attractive Mrs. John Kennedy is very interesting but probably will not help her husband's candidacy for President. To learn that his wife is only 29 years of age makes one realize that this promising couple can well afford to wait eight or 10 years before being seriously considered for our most exalted position.

PAUL E. SCHWAB
Beverly Hills, Calif.

CONTINUED



Hear about Clearasil
from DICK CLARK on
"American Bandstand"
on ABC-TV Network.

SCIENTIFIC CLEARASIL MEDICATION

'STARVES' PIMPLES

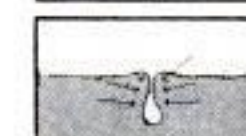
SKIN-COLORED, Hides pimples while it works

CLEARASIL is the new-type scientific medication especially for pimples. In tubes or new squeeze-bottle lotion, CLEARASIL gives you the effective medications prescribed by leading Skin Specialists, and clinical tests prove it really works.

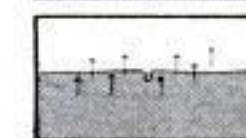
HOW CLEARASIL WORKS FAST



1. **Penetrates pimples.** 'Keratolytic' action softens, dissolves affected skin tissue so medications can penetrate. Encourages quick growth of healthy, smooth skin!



2. **Stops bacteria.** Antiseptic action stops growth of the bacteria that can cause and spread pimples . . . helps prevent further pimple outbreaks!



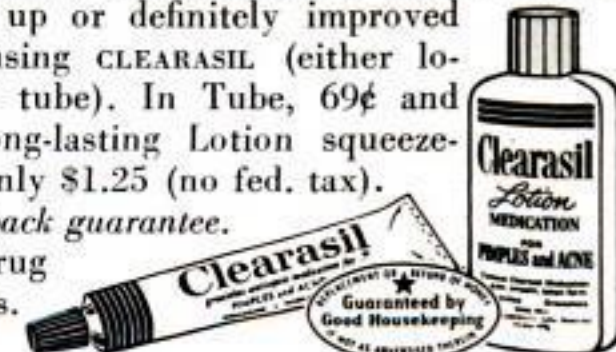
3. **'Starves' pimples.** Oil-absorbing action 'starves' pimples . . . dries up, helps remove excess oils that 'feed' pimples . . . works fast to clear pimples!

'Floats' Out Blackheads. CLEARASIL softens and loosens blackheads so they float out with normal washing.

Proved by Skin Specialists! In tests on over 300 patients, 9 out of every 10 cases were cleared up or definitely improved while using CLEARASIL (either lotion or tube). In Tube, 69¢ and 98¢. Long-lasting Lotion squeeze-bottle only \$1.25 (no fed. tax).

Money-back guarantee.

At all drug counters.



SPECIAL OFFER: For 2 weeks' supply of CLEARASIL send name, address and 15¢ to Box 9-UJ (for Tube) or Box 9-UK (for Lotion), Eastco, Inc., White Plains, N.Y. Expires 11/10/59.

LIFE 540 N. Michigan Ave., Chicago 11, Ill.



Please send ONE YEAR OF LIFE for \$5.95

(this rate is available to you in the continental U. S., Alaska, Hawaii, Puerto Rico, Virgin Islands, and Canada—one year at LIFE's single copy price would cost you \$9.88)

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TO SPEED DELIVERY OF LIFE—and all your mail—please be sure to include your Zone Number in your address. The mail you send will get there faster, too, if the address carries a Zone Number. L-3437



Made especially for mounting plastic table tops and bonding many dissimilar materials.

Send stamped, self-addressed envelope for Free copy of "Elmer's Guide To Good Gluing". Write The Borden Company, Dept. 9-A, 350 Madison Ave., New York 17, N. Y.

BORDEN'S PRODUCTS FOR THE HOME HANDYMAN

NOW! CBS Electronics brings you the biggest buy in Stereo!



Stereo 1 High-Fidelity console with remote "stowaway" speaker **\$129⁹⁵*** COMPLETE

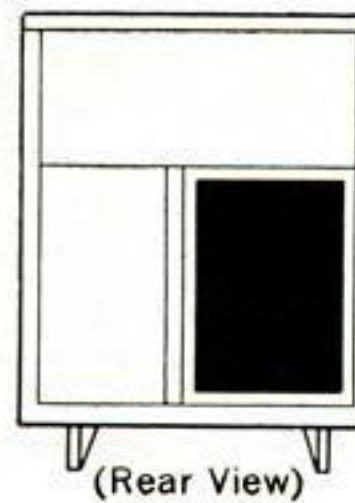
All these great Columbia phonograph features at this unheard-of price:

- 4 Perfectly Balanced Speakers—two 6", two 4".
- Columbia-designed Push-Pull Amplifier—for smoothest high-fidelity stereo performance.
- Columbia CD Cartridge—for superior tracking!
- Plays all records all speeds; automatic shut-off.
- 4 Separate Controls—A & B Channel loudness, treble gain, bass gain!

Only CBS Electronics could bring you this all-new console at this incredibly low price. It has all these exclusive Columbia features plus the greatest advance in the field of sound: **Stereo 1**. Interlocking circles of sound sweep through the room in every direction, surrounding you with the realism of a "live" performance. Own this great new **Stereo 1** phonograph (model C-1148) in fine mahogany finish for only \$129.95 complete! At your local dealer. Also available in American walnut or blonde.

Columbia Phonographs • 405 Park Avenue • New York 22, N. Y.

*Slightly higher in some areas of South and West.



(Rear View)

"Stowaway" speaker operates either in remote position for two-piece stereo; or it operates stowed away in the back of main cabinet for single unit stereo. Fits into any room.

Stereo **1** by COLUMBIA

NUMBER ONE IN THE WONDERFUL WORLD OF SOUND!

Old Spice Smooth Shave

stays
moist
and
firm

to the end
of
your
shave...



**SOFTENS BEARD BETTER THAN ORDINARY
PUSH-BUTTON LATHERS.** Especially formulated,
more costly ingredients give you a closer, smoother shave. Ends
razor drag...soothes and lubricates your skin. Old Spice Smooth
Shave is the finest quality push-button lather it is possible to
buy. Regular or mentholated, 1.00 Also available in Canada

Old Spice SMOOTH SHAVE

S H U L T O N

LETTERS TO THE EDITORS

CONTINUED

LITTLE ROCK

Sirs:

I don't know where you got that too-cute term "seggies" for segregationists but you are forgiven because of the magnificent picture you published of Police Chief Gene Smith standing erect, unafraid and unarmed, staying the forces of evil with a simple gesture ("Little Rock's Chief Stops the 'Seggies,'" LIFE, Aug. 24).

Because of that simple gesture we were able to let our 14-year-old daughter out of the car a few minutes later at the same time that Jefferson Thomas and Elizabeth Eckford got out of their car and drive away serenely confident that she would saunter casually into Central High unharmed.

Faubus may have thought he was being devastatingly sarcastic when he called Gene Smith our new hero but to thousands of parents in Little Rock he is exactly that.

MRS. MERLA MANOR

Little Rock, Ark.

LIFE'S GARDEN NEWS

Sirs:

I have enjoyed immensely the articles on gardening of various kinds which you have been publishing, especially the most recent one on lilies ("Five New Lilies," LIFE, Aug. 24). The text is excellent, and the photography has a jewel-like quality.

MRS. CHARLES R. FREITAG

Cheverly, Md.

RUSH TO EUROPE

Sirs:

My daughter's picture appeared in LIFE from the neck down, mostly a large expanse of lower extremities and curled toes ("America's Bargain Rush to Europe," LIFE, Aug. 24).

About 20 years ago my own picture appeared in LIFE in an ad for toothpaste—mostly face and smile. Between us—mother and daughter—we've made LIFE, top and toe. It took two generations. Must we wait for a third generation to get a glimpse of an integrated Bishop woman?

FRANCES V. BISHOP

New York, N.Y.



● Here is Miss Bishop complete (above, left).—ED.

Sirs:

Faith and begorra and other such quaint sayings! My Gaelic ancestors would rise from their tombs if they could see the Ancient Order of Hibernians emplaning for the Ould Sod on—saints preserve us—a plane called *The Flying Dutchman!*

JOSEPH E. SHEEHAN

New Milford, N.J.

for every sport



all purpose
sport sock

and
every day wear
too!

Wigwam SOCKS

Any time... any season
...for any activity—
enjoy the lasting comfort
of Wigwam Socks. They
hold their shape because
they're STA-SIZED. At
leading department and
sporting goods stores.

casuals
in color

hunting &
fishing



WIGWAM MILLS, INC., Sheboygan, Wis.
In Canada: Hanson Mills Ltd., Hull, Que.



TOOLS?



QUICK! Clean 'em with famous
3-IN-ONE OIL. A few drops
every now and then prevents
rust and tarnish. Famous for
64 years! On sale everywhere.

3-IN-ONE OIL

REGULAR · OIL SPRAY · ELECTRIC MOTOR

Stops Bad Breath INTERNALLY!



You Simply
Can't Offend

ENNDs Put
an End to Odor
in Seconds!

For quick, safe, sure, 'round-the-clock
freedom from odors of strong food,
alcoholic beverages, smoking, etc., take
wonder-working, pleasant-tasting
"ENNDs" Tablets containing the
miracle extract, Daratol®.

"ENNDs" act internally where sprays,
mouthwashes, toothpastes simply can't
reach. Can't upset the stomach. Trial
size at Drug counters only 54¢.

"ENNDs"

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CELOTEX
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THE EDITORS OF **LIFE** START A CONTINUING



SEATED IN CLASSROOM AT THEIR HEADQUARTERS AT LANGLEY AIR FORCE BASE, VA., THE SEVEN ASTRONAUTS LISTEN TO A LECTURE. IN THE FOREGROUND IS

THE ASTRONAUTS—READY TO

SOME fine early morning before another summer has come, one man chosen from the calmly intent seven above will embark on the greatest adventure man has ever dared to take. Dressed in an all-covering suit to protect him from explosive changes in pressure, strapped into a form-fitting couch to cushion him against the crushing forces of acceleration, surrounded in his tiny chamber by all manner of instruments designed to bring him safely home, he will catapult upward at the head of a rocket for more than 100 miles and then plunge down into the Atlantic Ocean. If he survives, he will become the heroic symbol of a historic triumph; he will be the first American, perhaps the first man, to be rocketed into the dark stillness of space. If he does not survive, one of his six remaining comrades will go next.

These are the Astronauts, pioneers picked for America's first efforts at manned space flight. With this issue LIFE begins an exclusive series that will chronicle their magnificent undertaking from start to stirring conclusion. The Astronauts will tell their stories in their own words—of the rigors of training, of the blast-off and the first quick

venture into space and back. America's first spaceman will give, in LIFE, his personal account of the strange and violent occurrences on this awesome journey and of his emotions at breaking the barrier that binds man to earth. The series will continue until the epochal goal is achieved—when an Astronaut is successfully recovered after orbiting the world.

On the following pages the seven Astronauts give personal accounts of their duties and feelings about Project Mercury, while eight pages of color photographs show their training. Next week the Astronauts' wives tell their own warm and discerning stories about their husbands and the jobs they have taken on.

The astronauts are all in their 30s. All are military pilots with experience in engineering and in testing new airplanes. Several have distinguished combat records and all were selected only after the most careful physical and psychological screening (LIFE, April 20). One member of the National Aeronautics and Space Administration board which chose them called the Astronauts "premium individuals picked for an unconventional task." In less clinical terms they are

EXCLUSIVE ACCOUNT OF MAN'S GREATEST ADVENTURE



GORDON COOPER. BEHIND HIM (FROM LEFT) ARE SCOTT CARPENTER, JOHN GLENN, VIRGIL GRISSOM, DONALD SLAYTON, ALAN SHEPARD, WALTER SCHIRRA

MAKE HISTORY

the best of a very good lot, a bright, balanced, splendidly conditioned first team, willing—eager, in fact—to undertake an assignment most men would find unthinkable.

In spite of their extraordinary qualifications the Astronauts have many of the preoccupations, and even the small weaknesses, of more ordinary men. Two of the four cigarette smokers in the group are trying—so far unsuccessfully—to stop. Two others are worried about their weight. They are concerned about the condition of the grass in their yards and proper schooling for their children. Though they were picked from the same general mold, the seven Astronauts are seven individuals. For instance, John Glenn (*p. 38*) is poised and articulate, Walter Schirra (*p. 37*) is lively and easygoing, Donald Slayton (*p. 42*) is frank and stubborn. But individual differences are subordinated to the main interest of all. In classes (*above*) and in physical training (*right*) they work in easy harmony. All are intensely proud of their exclusive fellowship—a pride reflected in a remark made by Scott Carpenter: "If I don't go first, I'll have had honor enough just being one of this group."



SKIN-DIVING ASTRONAUTS take a dip in officers' club pool at Langley. They do diving both for exercise and to experience sensation akin to weightlessness.

Photographed for LIFE by RALPH MORSE

'I'VE THE NORMAL DESIRE TO GO A LITTLE HIGHER'

NAME	Cooper, Leroy Gordon, Jr.	AGE	32
HEIGHT	5'9½"	WEIGHT	150
HAIR	Brown	EYES	Blue
BIRTHPLACE	Shawnee, Okla.	RANK	Capt., USAF
FLIGHT RECORD	2,300 hours (1,400 in jets)		
HOBBIES	photography, riding, hunting, fishing		
MARITAL STATUS	married, two children		

by GORDON COOPER

AS soon as I got through with the tests for the Astronaut candidates, I went back to Edwards Air Force Base and started getting ready to be called. It isn't that I'm particularly cocky. I just felt certain that I'd won a place and didn't want to waste any time when the word came. I alerted my CO and suggested that he start looking around for somebody to replace me on the F-106B test program. A few weeks earlier when we first knew that Project Mercury was in the wind, the commanding general told us he didn't want any of his pilots signing up just to be a man in a Spam can, but we found out later this would involve much more than hanging around until the day of the flight and then just going for a ride.

I was born and raised in the flying crowd. My father, who's a retired Air Force colonel, was a friend of Wiley Post's and Amelia Earhart's and we used to fly all around in an old Command-Aire biplane. I was handling the stick from the time I was 7 or 8 years old and I was just 16 when I first soloed.

I've been thinking about space, too, since I was a child. I used to read Buck Rogers in the funny papers and listen to the radio program, and I always wondered if we'd have to wait until the 25th Century to get around out there the way he did. I've read a little about the heavenly bodies and, as a pilot, I've followed our own test programs very closely. I've the normal desire experienced by everybody who's ever flown an airplane with a certain amount of zoom capability to go a little bit higher and a little bit faster. Flying alone, I've often wondered what it would be like to go way on up there and see the earth from a really great height. Being chosen for this project brings my life to a climax.

In the training so far we've tried to duplicate some of the stresses we're going to get in flight. The centrifuge, which simulates the acceleration and deceleration strains we'll feel going up and coming back, is a good practice ground. We've all put in some time in this machine at Johnsville, Pa. When running at extremely high accelerations, the "big wheel" is an exhausting device. But I feel that it reinforces our confidence that a man is going to be able to perform in the situations we'll encounter. It is not just a case of getting familiar with the feelings of stress. We must also learn to handle the capsule while undergoing the stress.

The first manned shot is going to be a ballistic firing; that is, the man will be fired off from Canaveral, go about 100 miles up, float there weightless in the capsule for a few minutes and then come back down into the Atlantic on a ballistic trajectory. The booster being used



EYE INSPECTION is given to Cooper, after ride in the centrifuge, by Mercury doctor William Douglas

to determine whether Cooper had suffered any physical damage from the strong G-forces. He had not.

for this is the Army's Redstone, and it is my special job in the project to keep up with the engineering developments on the Redstone and its connections with the Astronaut capsule. We are paying special attention to setting up systems which will provide ample warning time for the pilot and the ground control people in case it becomes necessary to abort the mission in a hurry.

The stresses faced by the pilot on the ballistic firing will not be as great as those faced on the orbital firing. The period of weightlessness will be brief. The acceleration forces will not be as great. The capsule will only reach speeds of 5- or 6,000 mph and the problem of heating on re-entry will not be as severe. Because we will be flying on a ballistic trajectory without orbital speed, we know pretty much where we're going to hit. Still, the man who rides the Redstone will go into space. It's a long way down and that parachute had better work well. Whoever he is, we'll all be awfully glad to see him back. In fact, we're going to be glad to see that 70-pound chimpanzee come back safe and sound when he gives the capsule a trial whirl before a man is chosen.

We all feel that there's a lot more to this thing than just being Number One, though we all want that. The Number One man will be the tool of our close-knit team. We're just getting started here with space programs that will continue as long as man can pick himself up and go. And we're all going to get a chance to make some contribution. There will be a lot of firsts: the first man on a ballistic firing, the first man into orbit, the first man to orbit the moon, the first man to land on the moon. The public enthusiasm in this thing so far has surprised me. If we don't keep moving, maybe the Russians are going to win a few of these blue ribbons.

HOW TO GUIDE CAPSULE is demonstrated by Gordon Cooper in triple-exposure photograph showing his right hand making three separate moves. Moving test stick back and forth (red hand) controls "pitch" or up and down movements. Moving it right or left (green) controls "roll." Rotating it (blue) controls "yaw" or sideways motion. Plane pilots use feet on rudder pedals to control yaw, but Astronauts must learn to govern all controls with one hand because feet cannot make such precise corrections.

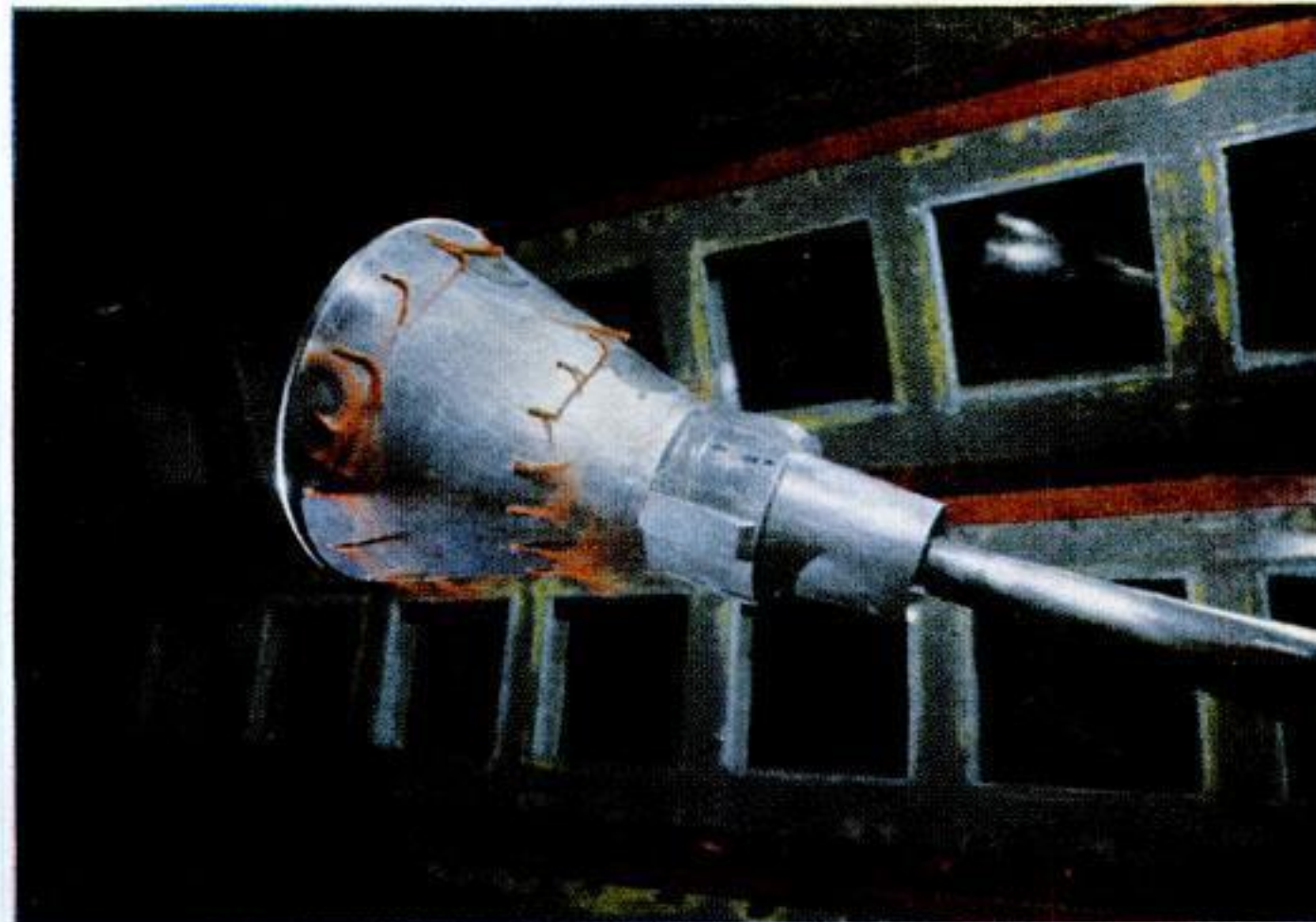


SPLASH TEST is given scale model of the Mercury capsule in tank of water to simulate its drop into the ocean after space flight. Here, in multiexposure photograph, the capsule falls toward tank (*upper left*), hits water at prescribed 54° angle where it casts an upside-down reflection, then bounces away. Watching the

test is NASA engineer, Victor Vaughn, who also records tests with electronic instruments for detailed study. The actual capsule will be slowed down during its descent to earth by two parachutes. But it will still hit the water with a speed of 30 feet per second, giving the Astronauts a sharp but endurable jolt.



GOING OUT FROM EARTH in simulated flight, scale model takes a simulated space flight in wind tunnel. Red yarn whipping in wind behind the capsule shows it is not perfectly streamlined like an airplane. This fault has been built into capsule on purpose, to help slow it down and keep it cool as it re-enters atmosphere.



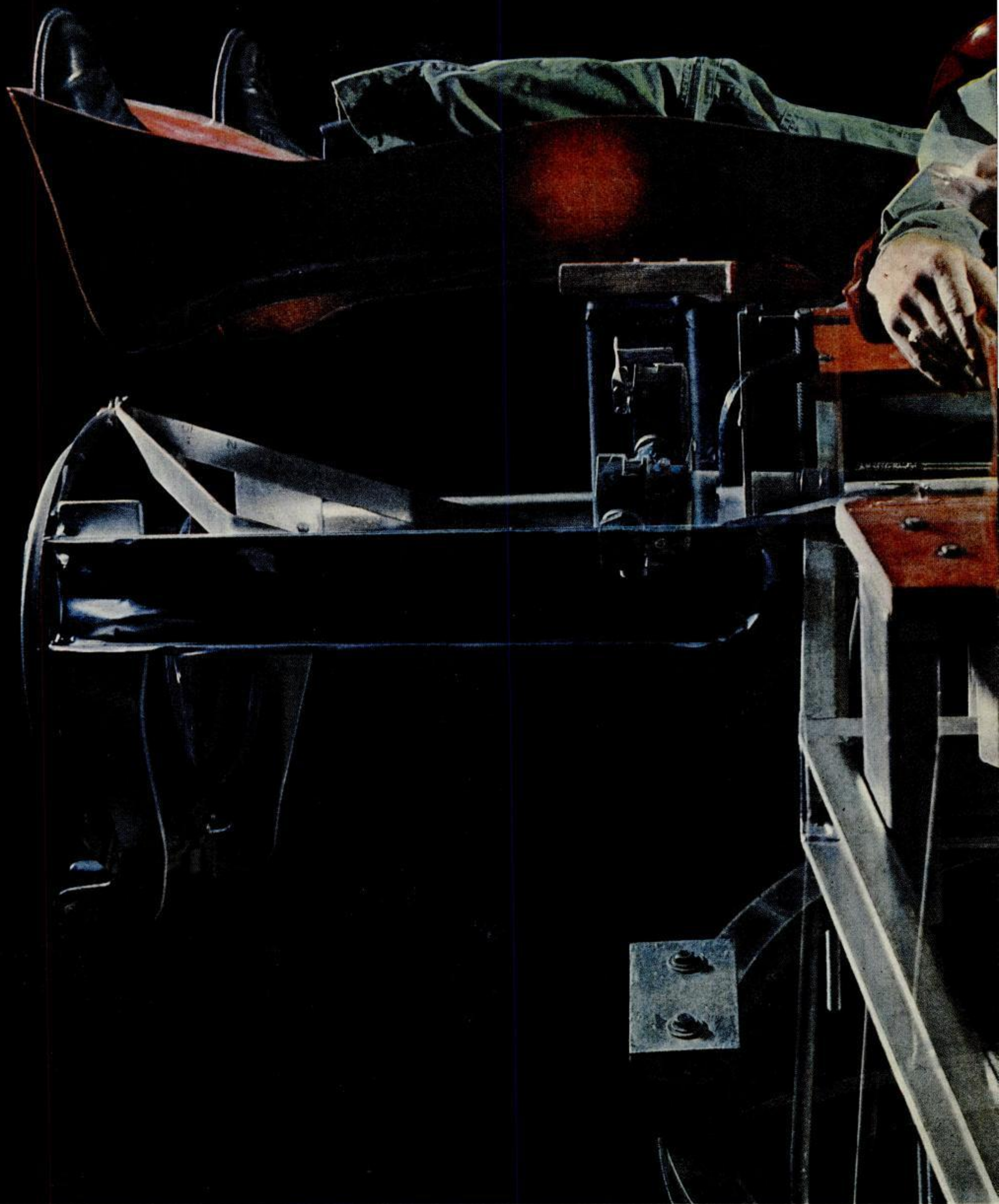
COMING BACK TO EARTH and pointed into wind, its red yarn flapping, model again shows capsule's aerodynamic instability. The only danger in this design is that capsule will plunge out of control on re-entry unless corrections are made for yaw, pitch and roll, by either the Astronaut or an automatic pilot.



hand to make the simulator rotate or tilt. His fiber glass contour couch is mounted on top of the simulator which rests on cushion of air rather than metal bearings to diminish friction. Large lens like one under Slayton's feet (*far left*) will be connected with a periscope in the capsule to show him the capsule's attitude

in relation to the earth. During the training period the lens reflects horizon maps of the earth so he can practice maintaining correct attitude. Each Astronaut must spend a total of about 50 hours in this simulator to get used to the feel of guiding himself through space flat on his back and driving with one hand.

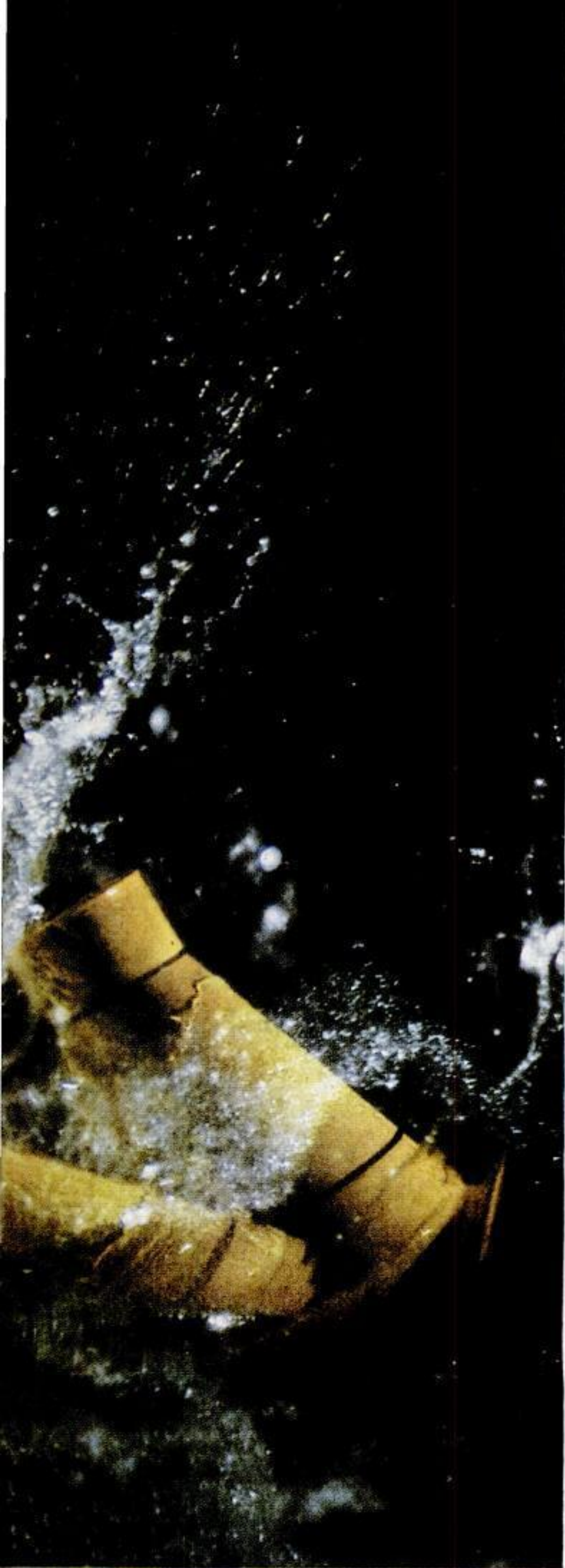
CONTINUED



HOW HE WILL RIDE CAPSULE is demonstrated in double-exposure photograph by Donald Slayton using training device called an Air Bearing Orbital Attitude Simulator. Lying on his back, Slayton rides perfectly flat (*side view*), then tilts chair upward as he faces the camera. He would use the same principle

in orbital flight to revolve or tilt the capsule to keep it in the proper "attitude" or position as it moves through space. Using the same hand motions to control the yaw, pitch and roll of the capsule demonstrated by Gordon Cooper on a preceding page, Slayton activates tiny jet air nozzles in control box near his right

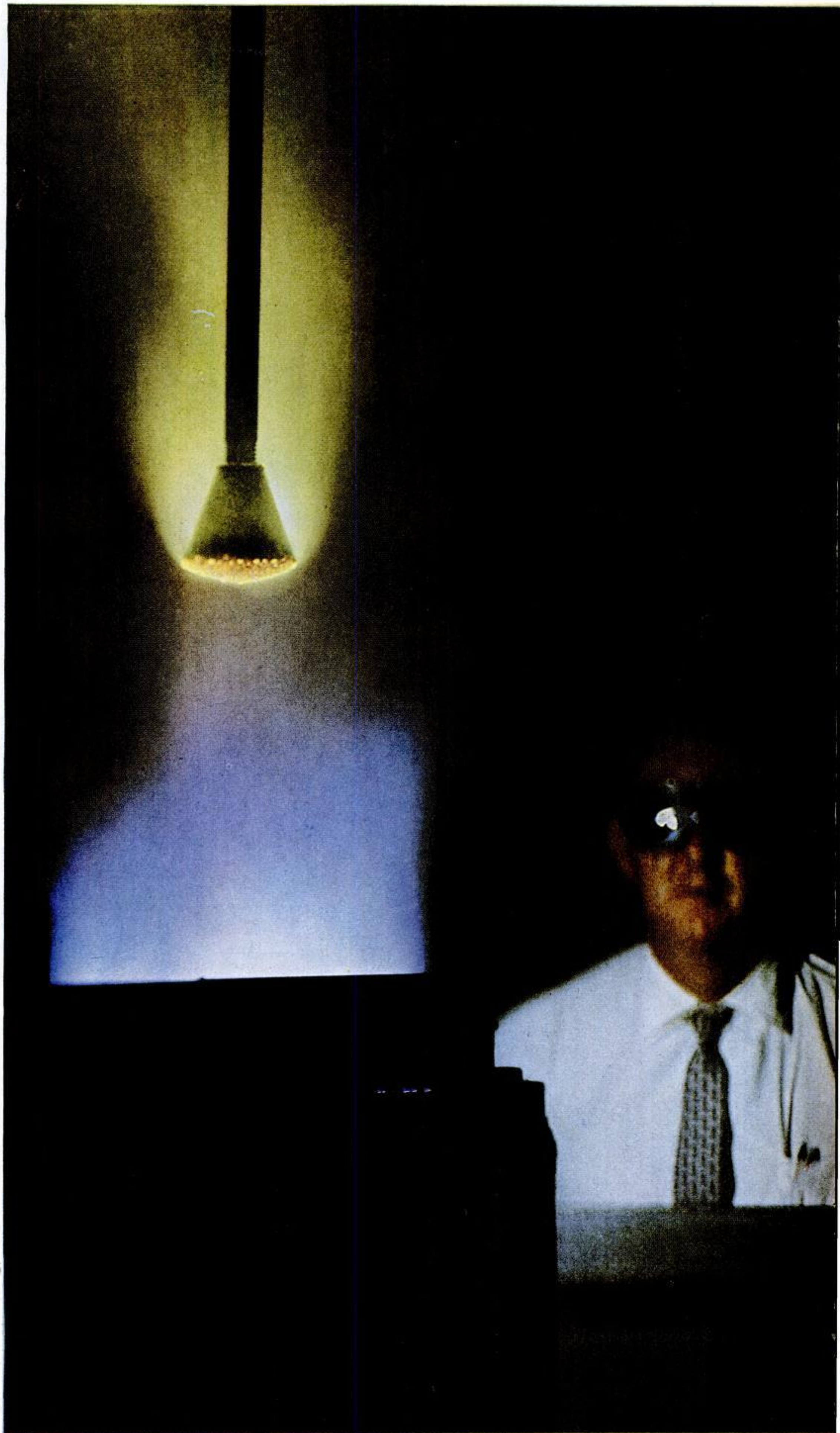




CAPSULE IN FIRE, WIND AND WATER

As the Astronauts get ready for flight, NASA engineers are racing to perfect the capsule they will ride. It is a compact device, six feet in diameter and 10 feet high, shaped somewhat like a TV tube and just big enough to carry a man plus the equipment he needs for his mission. The McDonnell Aircraft Corp. of St. Louis is building it, but NASA engineers are conducting tests at the Langley Research Center where the Astronauts are training.

To make sure the capsule and its passengers will not burn up from air friction on returning to earth or break into pieces on landing, the engineers are scorching, pounding, dropping and otherwise punishing capsule models to see how they take it. They have dropped capsuled pigs on the ground 10 times as hard as the men should have to land. The pigs came out fine.



5,000° AIR JET is blown against tiny fiber glass and plastic model of capsule in heat test conducted by NASA Engineer William Brooks. At one end of its trip through space, as capsule falls toward earth, its

outer skin will heat up to 1,200°F. Insulation and air-conditioning system in the capsule will hold down the temperature in its interior to about 120°F., which the men, in space suits, can easily withstand.

CONTINUED



IN "THRONE ROOM," full of contour couches specially molded for each of the seven Astronauts, Alan Shepard tries out his personal couch for fit with help

of Dr. William Douglas, an Air Force medical officer who is permanently assigned to care for the Astronauts. Couches are used in centrifuge tests (opposite page).

TASTE OF SPACE SPEEDS IN GRUELING RIDES ON GROUND

The nearest thing the Astronauts will get to actual space flight for several months is a grueling series of simulated flights being run at the Naval Air Development Center in Johnsville, Pa. Here they don flight suits and helmets and, in special plastic seats made to cushion their rides, take turns climbing into a huge 50-foot centrifuge which whirls them around at the same G-forces they will experience in space flight.

A project doctor stands by checking each man's heartbeat and respiration on an instrument panel. In the tests so far, most of the Astronauts have experienced only about eight or nine Gs. Later on in the program, to make sure they can withstand emergency situations, the centrifuge will be speeded up to 20 Gs and the men will be spun over into what pilots call an "eyeballs out" situation. They do not look forward to it.



SCOTT CARPENTER bugs his eyes from strain as he sits strapped inside centrifuge for simulated space ride. In this test, centrifuge put him up to 14 Gs.



JOHN GLENN has drawn face from eight Gs of pressure as he tries to talk through centrifuge microphone with engineers who are monitoring his test ride.

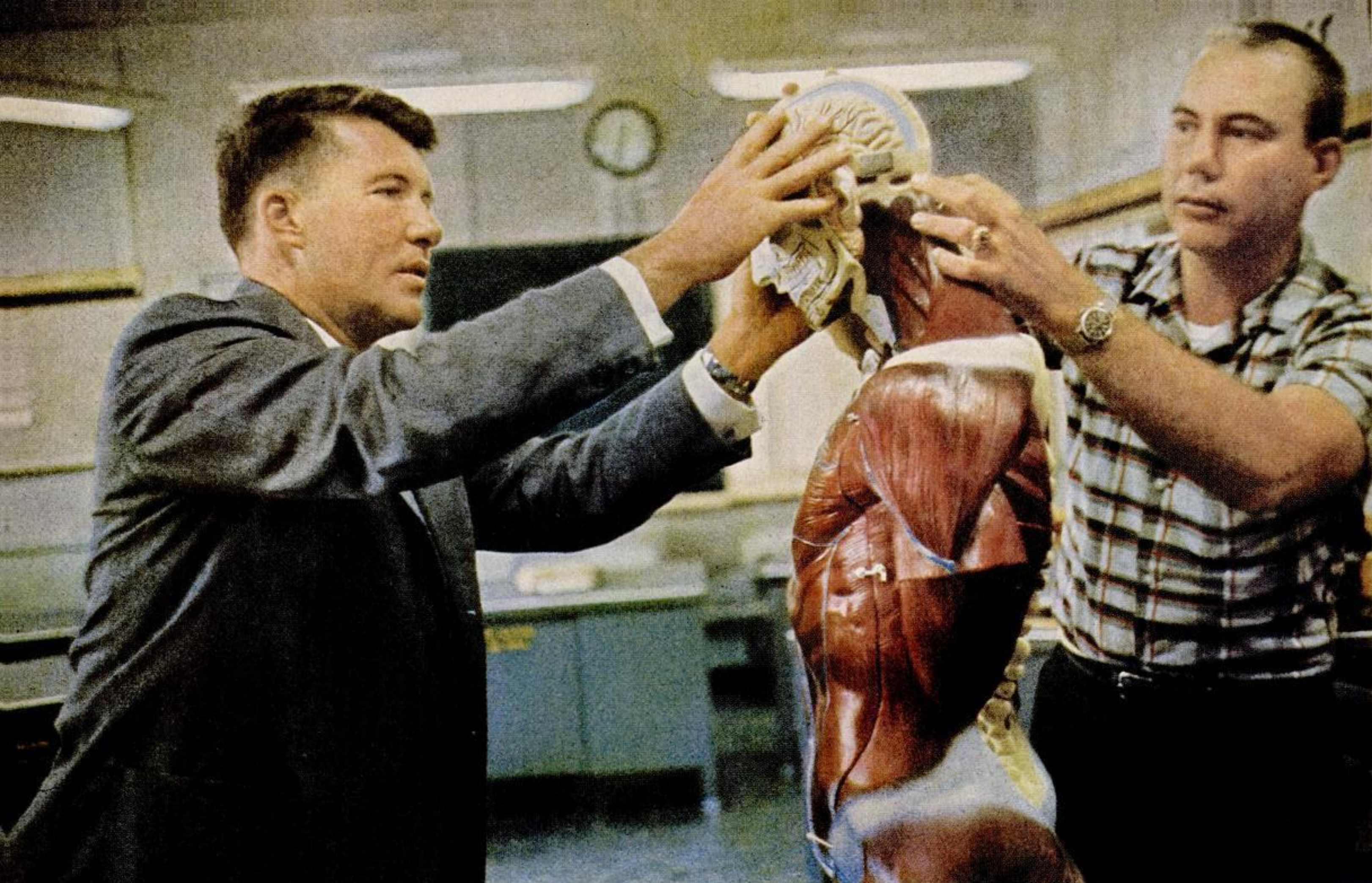


VIRGIL GRISSOM closes his eyes as the Navy centrifuge whirls him through a five-minute ride up to peak of eight Gs, condition he will meet on re-entry.



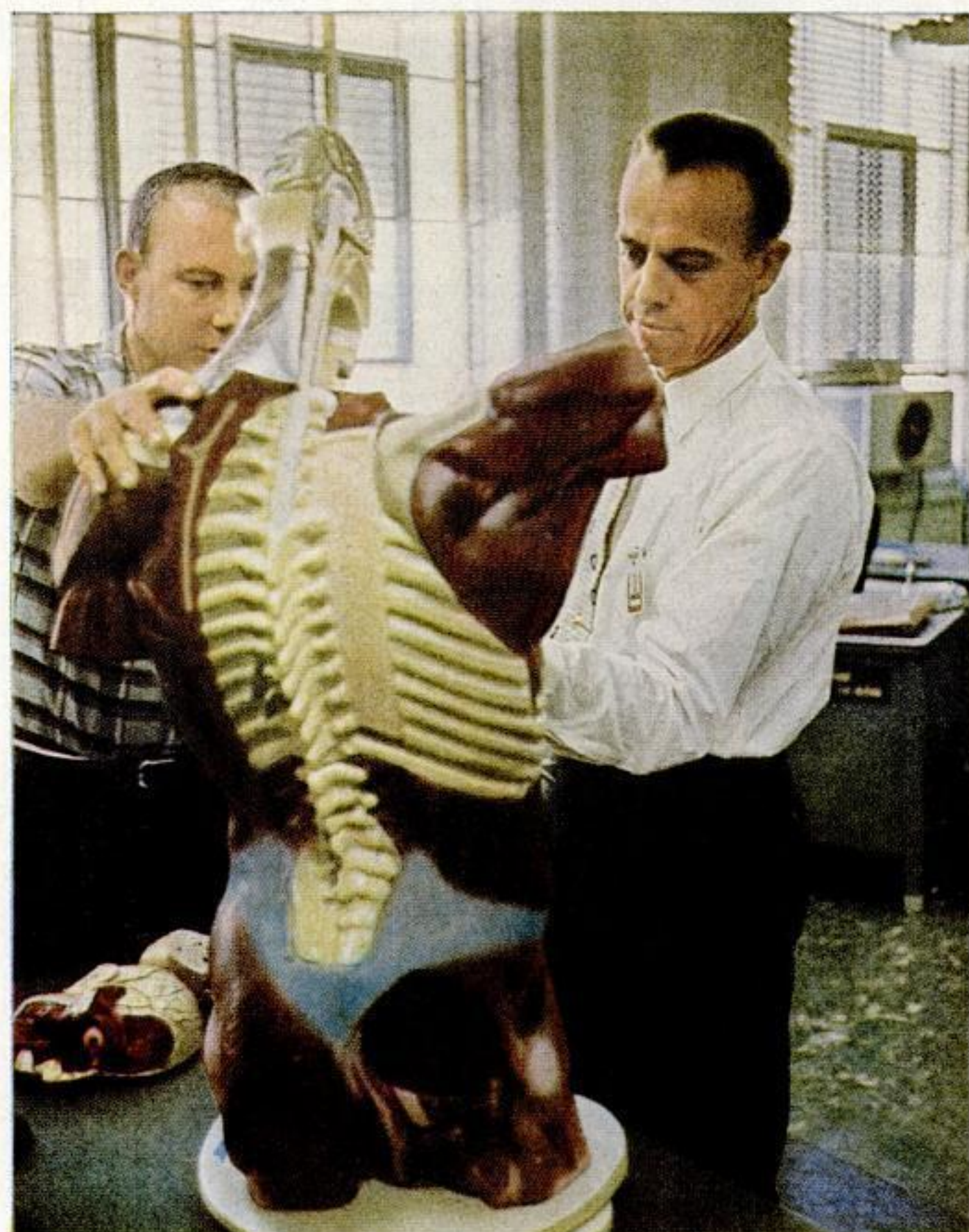
WALTER SCHIRRA strains to speak at about eight Gs. On typical ride the men undergo a complete space flight including a simulated take-off and re-entry.

CONTINUED



PHYSIOLOGY LESSON is given Astronaut Walter Schirra (*left*) by Dr. Douglas, who removes rubber flesh and organs from male torso to show him where and

how the stresses of space flight will affect him. Here Douglas explains how the G-forces drain blood from the eyes first, causing them to black out before brain.



STUDYING BLOOD VESSEL, Alan Shepard traces carotid artery which takes blood to head. After lessons, men will be able to pinpoint reactions in flight.

TRYING ON SPACE SUIT for first time, Virgil Grissom raises arms to see if inflated suit is too tight. This is Navy model similar to suit Astronauts will wear.



'THERE WON'T BE TIME TO SEND FOR THE MANUAL'

NAME	Schirra, Walter Marty, Jr.	AGE	36
HEIGHT	5'10"	WEIGHT	185
HAIR	Brown	EYES	Brown
BIRTHPLACE	Hackensack, N.J.	RANK	Lt. Comdr., USN
FLIGHT RECORD	3,000 hours (1,700 in jets)		
HOBBIES	hi-fi, sports cars, water skiing, skiing		
MARITAL STATUS	married, two children		

by WALTER SCHIRRA

AVIATORS think of test piloting as the peak of their flying careers, and a good test pilot is fiercely proud of his ability to fly better than anyone else. He also thinks that he understands airplanes better than anybody else. I was very reluctant to chuck 13 years of flying to take part in what at first sounded like a stunt. But I gradually became convinced that Project Mercury was a solid program and that really good test pilots were needed to handle the job.

The longer I'm in the program the more I feel that our experience is going to come in handy. Things could go to worms awfully fast on this mission and there won't be time to send for the manual. It happens all the time both in testing and in combat. Once out in California during the development of the Sidewinder air-to-air missile, I was firing one at a drone airplane. My Sidewinder was just on its way when suddenly it got an "up" signal from somewhere and started into a long loop. This might have been fairly bad because the Sidewinder seeks out a heat source, and it might want to home in on the heat from my own jet exhaust. All I could think of at the moment was looping right behind it, trying to keep its front end from "seeing" my back end. Fortunately the thing ran out of fuel before I was in danger, but here for a moment was something trying to kill me, and it wasn't even a man.

Combat experience is useful too. You can be flying along full of confidence with a gaggle of friendly airplanes all around you, forgetting for a moment that all that's between you and the ground is a batch of aluminum with bits of steel here and there to give it rigidity and make it go. Then all at once something hits you—in my case it was ground fire during a napalm attack—and that fine feeling of security is gone. You swab out the cockpit to find out where the trouble is, and you have to get home on adrenaline, experience and what's left of the airplane.

I think I first started worrying about the need to go higher and faster in Korea. The MiGs had the "bounce," or attack, on our F-84s every day, and it got un-American. You only have two cheeks to turn. Pure space flight is just a sensible extrapolation from present-day speeds and altitudes. None of us in this group is interested in the glamor of being a spaceman. We're interested in getting up and getting back.

The group itself impresses me. I knew a couple of the boys before Project Mercury came up, but basically we were all strangers. It's working out well. No one man is the Astronaut, taking bows for himself. Nobody is nit-picking. We've carefully avoided getting into arguments of a personal nature, but we've



REGISTERING COMPLAINT, Schirra, whose special responsibility is conditions inside capsule, tells

Mercury doctor before a centrifuge ride that the harness holding him in seat cuts into his shoulder.

never avoided arguments of a technical nature.

My area of special interest in the program is environmental control. This has to do with all equipment inside the capsule that keeps the pilot healthy. A constant air pressure will be maintained if all goes well, and if it doesn't, the pilot's pressure suit will protect him. He will be breathing 100% oxygen. There will be air-conditioning units to cool the capsule during orbit and re-entry heating. During the latter the temperature on the inside walls might reach as high as 250° F. If the capsule air-conditioner goes bad, the pressure suit has a cooling system of its own. There are dehumidifiers to take care of excess moisture from pilot perspiration. There are carbon dioxide absorbers. There are filter traps to keep any solid objects which might be floating around the capsule during weightlessness from getting into the system.

As the program goes on, I think the fellows will start getting more competitive, start really trying to get in shape and get their bodies and minds in top condition. When it's time to go, I think all of us will know who is on the peak, which of us should go. Perhaps the best feeling the chosen man will get is the understanding that the whole team knows he's their best representative.

I want to be first. The impact of being first is something that will be only yours for the rest

of your life and on into history. Being the first one to look out at the earth from up there will be tremendous. Naturally any man with any motivation or ambition or pride in himself would want it.

If I'm the one to go, I'm going to want some privacy in those last few hours before firing. Perhaps we'll have a trailer or some accommodations set apart where we can talk to each other, our doctors and a couple of the engineers. I'm not going to want any admiral or general there giving me best wishes. This is my job now and I'm getting ready to go out and do it. We've been over the whole thing many times. We'll just need to cover the last details.

The other boys will be around at various stations on the ground to answer last-minute queries clearly and simply. Suppose I'm lying there on top of the Atlas before blast-off and I'm getting a little vibration I don't expect. I can call Slayton, whose special area is the Atlas, on the radio and say, "Hey, Deke, what's all this vibration I'm getting here?"

And he'll say, "I've noticed that, Wally. It's just the hootenanny valve on the what-chamicallit fluttering a bit. I noticed the same thing out on the test stand at Convair. It's nothing. Forget it." That's all I'll need.

'SPACE IS AT THE FRONTIER OF MY PROFESSION'

NAME	Glenn, John Herschel, Jr.	AGE	38
HEIGHT	5'10½"	WEIGHT	180
HAIR	Red	EYES	Green
BIRTHPLACE	Cambridge, Ohio	RANK	Lt. Col., USMC
FLIGHT RECORD	5,000 hours (1,500 in jets)		
HOBBIES	boating, water skiing		
MARITAL STATUS	married, two children		

by JOHN GLENN

BEING involved in a program of this sort makes it necessary for a person to take a hard look at himself and figure out really why he is doing it. The gratification of pride that you have enough brains and experience and stamina to be chosen is the least important of the reasons. Space travel is at the frontier of

my profession. It is going to be accomplished and I want to be in on it. There is also an element of simple duty involved. I am convinced that I have something to give this project: in 16 years of flying, both in combat and in testing, I have had a lot of experience in clutch situations, situations where you often face dangerous unknowns. There's plain excitement in it for me, too, and it would be ridiculous to deny it. I count myself lucky to be around at this particularly exciting time in history when man is going to be able to move beyond his comfortable atmosphere.

A lot of our thought during the training period has gone into what will be our portable environment during the first space rides, the capsule itself. My special area of responsibility is the layout of the pilot space in this very small and cramped chamber. It will contain the pilot, his specially contoured couch and a very considerable amount of instrumentation.

The way this instrumentation is presented to the pilot—that is, where it appears, how close it is to him, how easy it is for him to see and quickly understand—is of vital importance. For example, the man will be pressed hard into his couch by the acceleration after launching and by the deceleration of re-entry. He will not be able to turn his head to scan his instruments and must do it simply by moving his eyes. Thus if the instruments are too close to him, his field of vision on either side is far more restricted than it would be if the instruments were a little farther away. The attempt of the engineers and the doctors who have worked on the design of the capsule interior has been to give the impression, to create the *fact*, of roominess in a confined space. Even the color scheme helps to separate certain groups of instruments from each other so that the pilot can take them in quickly.

Achieving and maintaining the physical readiness to go is important to us all and could be something of a problem. Because so much of our time is spent attending classes, practicing on various simulators like the centrifuge and traveling around the country on project business, it is not easy to stay in shape. In preparation for more advanced training that we will take later, we all went through a tough course with the Navy's frogmen which ended with our swimming 1,000 yards under water with the Aqua-Lung and flippers. But we all need to do more. Many of us water-ski at every opportunity, and I have started running two miles every morning before breakfast, which is having encouraging results.

We can count on the fact that the machine will be in excellent shape. There are back-up systems, redundancies for every system in the capsule. If something fails, the pilot will have a sound alternative to fall back on. It's possible to sit and dream up rough situations—cabin air pressure down, air conditioning out and great heat in the capsule, the auto-pilot out, trouble with the automatic device that releases the parachute. But even with all that difficulty—which is enormously unlikely—I'm sure the pilot will be able to cut it.

Many times every day I think of taking off in that missile. I've tried a thousand times to visualize that moment, to anticipate how I'll feel if I'm first, which I very much want to be. But whether I go first or go later, I approach it now with some awe, and I'm sure I'll approach it with even more awe on my day. In spite of the fact that I will be very busy getting set and keeping tabs on all the instruments, there's no question that I'll need—and will have—all my confidence.

As to how far in advance of the first flight the man should know he's going. I'm not in agreement with the argument that says word should be delayed until the last possible moment to save the pilot from developing a bad case of the jitters. If we don't have the confidence to keep from getting clutched at that time, we have no business going at all. If I'm the guy going, I'll be glad to get the dope as soon as possible. As for keeping this a big secret from us and having us all suited up and then saying to one man "you go" and stuffing him in and putting the lid on that thing and away he goes, well, we're all big boys now.



SLIDING INTO SIMULATOR. Glenn gets ready to lie down atop training device shown on pages

30, 31. Equipment on floor is part of system powering jets which spin Glenn as he learns controls.

'YOU JUST DON'T HAVE TIME TO GET FRIGHTENED'

NAME	Grissom, Virgil Ivan	AGE	33
HEIGHT	5'7"	WEIGHT	155
HAIR	Brown	EYES	Brown
BIRTHPLACE	Mitchell, Ind.	RANK	Capt., USAF
FLIGHT RECORD	3,000 hours (2,000 in jets)		
HOBBIES	hunting, fishing		
MARITAL STATUS	married, two children		

by VIRGIL GRISSOM

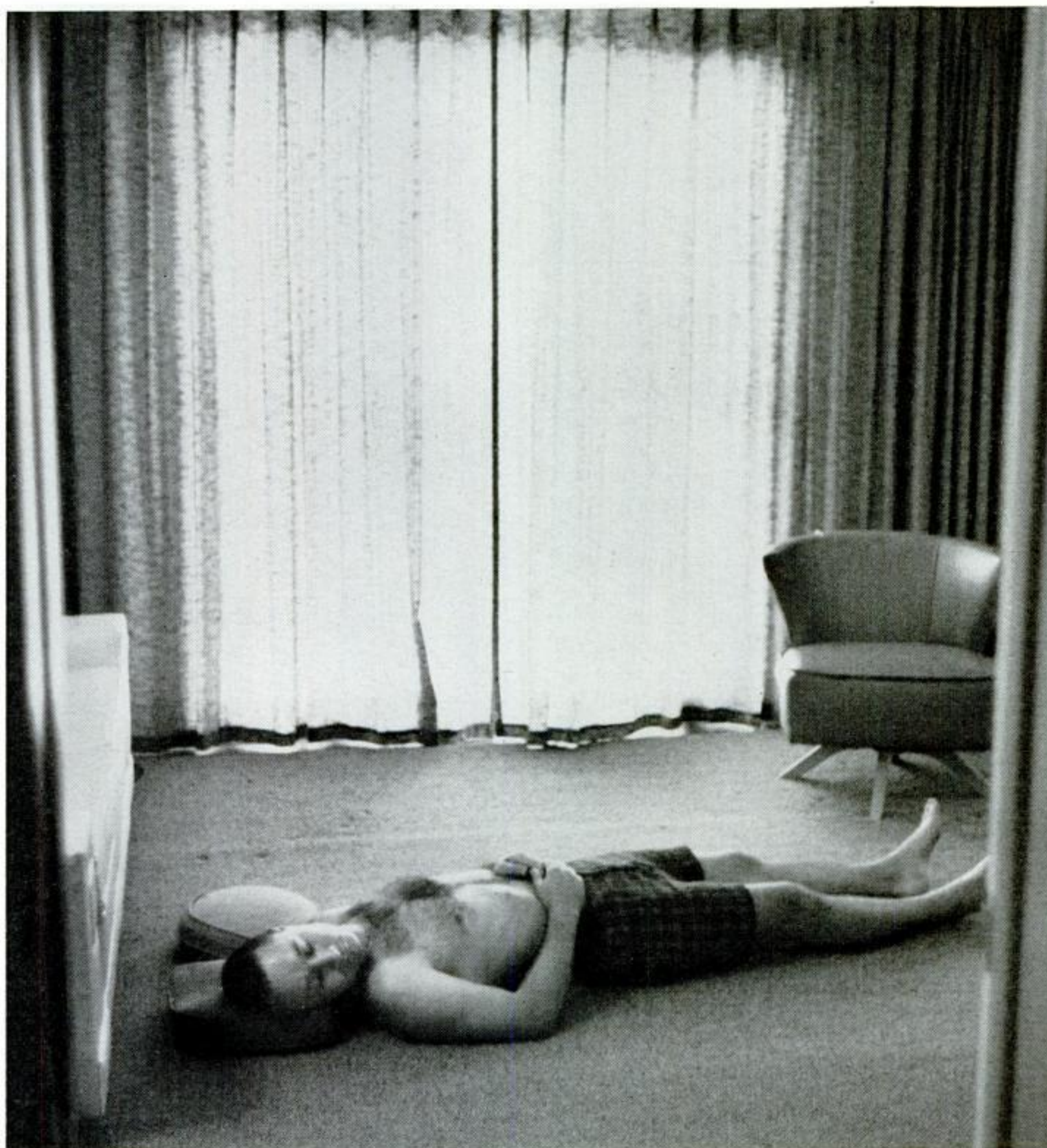
WHEN I was selected as one of the seven Astronauts, a reporter looked up my old Scoutmaster back in Indiana and asked him if he remembered me. The Scoutmaster said yes indeed, he remembered Grissom, but he was mighty surprised to hear that I would volunteer for such a mission. Well, I think I was just as adventurous as the other kids in the troop: I camped on my own, slipped off to the stone quarries to go swimming and even explored a few caves, which can be quite a scary business.

I feel that I've had a lot of experience since my Scouting days that qualifies me for the job of going into space. I've just come from Flight Test at Wright-Patterson Air Force Base, where an aviator flies brand new airplanes and has to be at his sharpest. Before that I trained advanced students in jets, and training cadets can be more dangerous than flying combat missions. At least you know what a MiG is going to do.

In combat in Korea I mostly flew wing on the leader, looking for attacking MiGs. Often one would be in through the sun and firing before you could even see him. Though the guy in the MiG is definitely trying to kill you, you just don't have time to get frightened. You have to call your leader and tell him clear and fast which way to break, and you have to do it in a voice that doesn't scare him to death. In 100 missions none of my leaders or wingmen ever got hit, and neither did I.

The ability not to panic in a clutch situation could be very important in this mission. When the doctors were testing us for final selection, they had a device called the Idiot Box, which was really just a big instrument panel. It must have contained in one place everything the Air Force has ever done wrong in instrumentation. The instructions varied from instrument to instrument; there were handles to be turned or pulled, switches to be thrown, buttons to be pushed. Lights flashed at random all over the board in rapid sequence, and you had to put out the lights by hitting the proper switch or button. If you got the slightest bit behind, a horn blew loud right in your ear. It was supposed to rattle you, and it is significant that none of the final Astronauts let the horn throw him.

From my point of view the hairiest part of this mission would be an emergency situation in which the pilot had to take over control of the capsule during re-entry from orbit. During ordinary re-entry the capsule is guided toward its impact point by an automatic pilot. The auto-pilot, which is my specialty area in the project, controls the pitch, roll and yaw



GRABBING A NAP after hard week of training, Grissom dozes on study floor. In five months since

program began Astronauts have traveled nearly 20,000 miles for tests, classes and to inspect facilities.

of the capsule as it plunges about 100 miles downward. Every time it takes the slightest deviation from a normal path, the auto-pilot corrects this by signaling for the firing of small jets of hydrogen peroxide on the outside of the capsule.

But if the auto-pilot doesn't work, the pilot is going to have to bring the capsule down himself and it's going to be a job calling for absolute coolness and concentration. From his position in the couch he'll be watching his instruments and delicately controlling the capsule with a stick held in his right hand. Depending on the way he moves the stick—back and forth, right and left, or circularly—the jets will fire to correct the capsule's oscillations. During this time the pilot will be pulling several Gs of deceleration and will be uncomfortably warm because of the heat of re-entry.

It is the re-entry heat problem, in fact, that makes the pilot's control so critical. It is crucial to keep the blunt nose of the capsule pointed straight down into the heat at a zero angle of attack. This end of the capsule is protected with a heat shield. If the capsule tumbles out of control and exposes the remaining surfaces to prolonged high heat, it could burn up. At Langley Air Force Base we have been working a hand-controller that duplicates

the stick we will have in the capsule (p. 29). A computing machine pumps a pattern of oscillations into the instruments in front of the Astronaut seated at the controller. He then works to keep up with the gyrations as his imaginary capsule drops down through deep trouble. By practicing regularly with this machine, we are learning to save our lives at some later date.

Occasionally I lie in bed at night and think, now what in the hell do I want to get up on that thing for? Especially I think that way when I consider the two boys and my wife. Why do I want to risk my life? The answer is that I'm a career military officer and, I think, a deeply patriotic one. If my country has decided that I'm one of the better qualified people for the mission, then I'm glad I can participate.

I don't know that I'm going to be scared, even if I'm first. Just before I got into this thing, I flew a test mission that a lot of people thought was downright suicidal. I wondered the night before the flight if I'd be scared when I got out on the end of the runway, ready for take-off. As it turned out, I was too busy doing my job to be scared. The best guess I could get was that the plane would fly, and it did. So will the capsule.

'I KNOW IT CAN BE DONE AND I WANT TO DO IT'

NAME	Shepard, Alan Bartlett, Jr.	AGE	35
HEIGHT	5'11"	WEIGHT	160
HAIR	Brown	EYES	Blue
BIRTHPLACE	East Derry, N.H.	RANK	Lt. Comdr., USN
FLIGHT RECORD	3,600 hours (1,700 in jets)		
HOBBIES	golf, water skiing, ice skating		
MARITAL STATUS	married, two children		

by ALAN SHEPARD

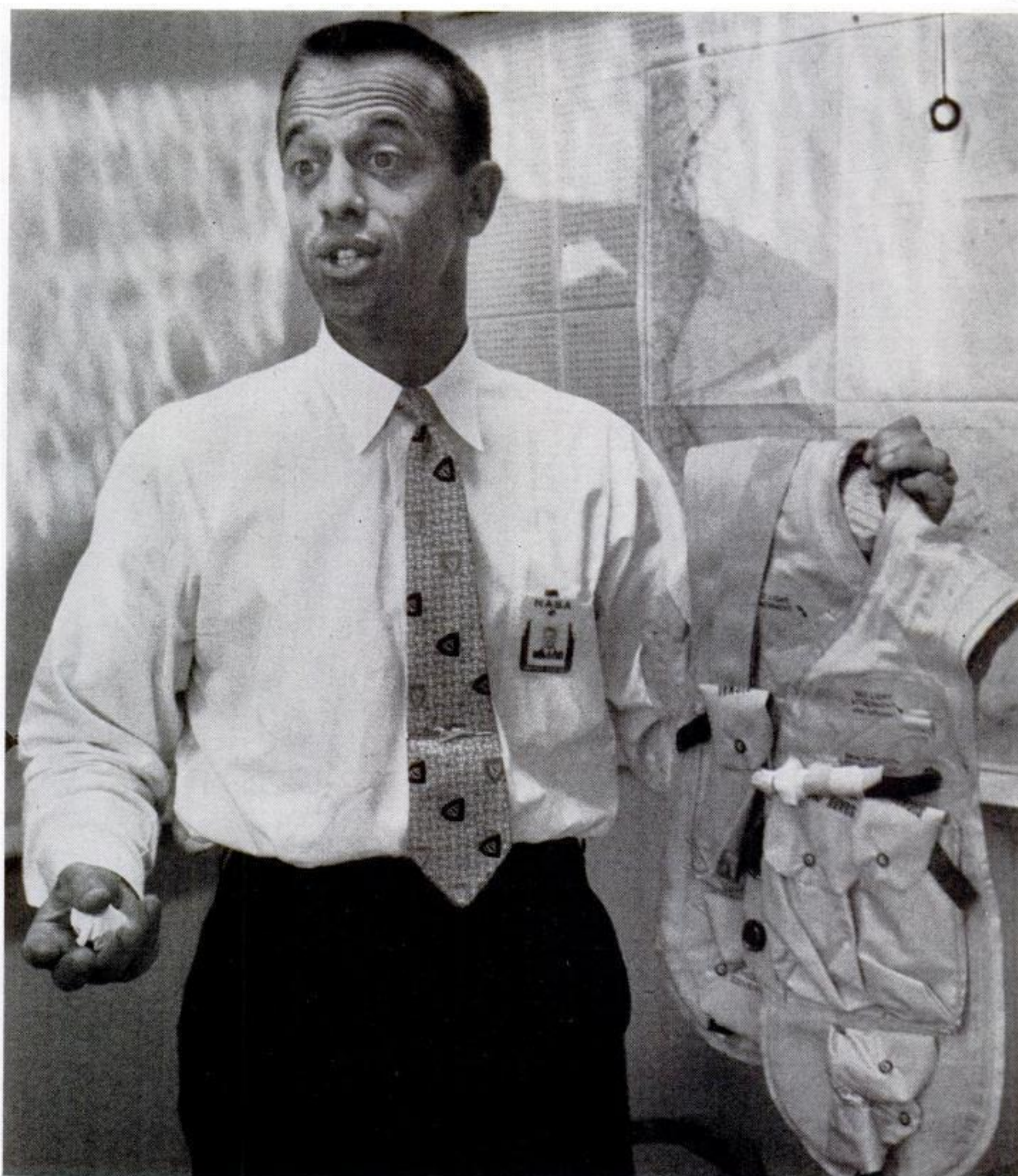
If I'm first, I think the greatest feeling will come when the capsule is separated from the booster and turns blunt end forward. Then I'll know that we have passed through all the checkpoints and gates on the way to altitude, that we achieved the proper angle and the right velocity and that the capsule and I are now in orbit. This will be the great moment, to be able to look out through the periscope and see the earth passing beneath me and to know that no man has been up here before. Even though the pilot will be awfully busy, he will still have his time for exulting.

Of course the second basic requirement for a successful mission is the safe return of the pilot *after* orbiting, and one of my special areas of responsibility is working with the groups who will be charged with the recovery of the Astronaut. The plan is for the capsule to come down at a predicted impact point in the Atlantic Ocean. The main parachute opens at about 10,000 feet above the water, and circling airplanes and surface vessels converge on the spot. The capsule hits with a good splash and floats. In case the recovery vessels are some distance away, electronic gear begins sending out signals. All the Astronaut has to do is sit back, firing smoke bombs if he chooses, and wait for somebody to come around and pick him up.

There could be certain complications. If the retro-rockets did not fire automatically but had to be fired manually by the pilot, the impact point might be changed somewhat. The human hand simply can't obey and transmit a signal as quickly as a machine. At speeds of about five miles a second, a delay of a few seconds at one end of the line can alter the landing point considerably at the other. The retro-rockets have to be fired as accurately as possible: the firing point for a normal impact in the Atlantic Ocean is over the Pacific several hundred miles west of the California coast.

Because of the delicacy of timing on re-entry, the worldwide tracking range, my second area of special interest, is of great importance. All the way around the world, stations underneath the orbit path will be tracking the capsule, and the information they pick up must be transmitted to the main computer as quickly as possible, preferably instantaneously. Though there will be rescue ships stationed all along the Atlantic missile range, it will be vital to get immediate information on any change in the predicted impact point.

We're all adopting the attitude that this mission is going to be a normal one, and I see no reason to expect that it will be anything



DISPLAYING MAE WEST, Shepard, who is responsible for rescue and recovery phases of program,

explains new model of Navy life jacket which Astronauts will wear in high-speed jet training flights.

but that. There's no real point in worrying anyhow. There never is. It just messes you up. I've had engine flameouts at extremely high altitudes on special tests, I've had canopies blown off suddenly and I've had to land on carriers in the black night. The only way to make it is to work at it. Off the coast of Korea after the war was over, I lost my radio aids one night and couldn't find the ship. The visibility was poor, the overcast almost down to the water. I was a little shook. I thought for a minute or two that I wasn't going to make it. But then I realized that all this worrying wasn't doing me any good so I settled down and started to make do with the equipment I had, to make my training work for me. I was able to find the carrier by closing out the fear and concentrating on my job.

So far the training has been awfully good. Every day something exciting is happening, and you have a feeling the whole thing is building. We are getting general astronautical information too. All of this will be a great help in future programs if we're training new space pilots or even just teaching some guy to fix the plumbing in the space ship.

In the selection of the Astronauts the hardest part of the whole thing for me was the

psychological testing. I'm not my own favorite subject, and it has always been difficult for me to analyze my feelings. But my feelings about being in this program are really quite simple. Without being too Navy Blue and Gold, I'm here because it's a chance to serve the country. I'm here, too, because it's a great personal challenge: I know it can be done, that it's important for it to be done, and I want to do it.

The night I got orders to leave my staff job in Norfolk to go to Washington for briefing on Project Mercury, I had a long talk with my wife about it. We didn't know much then, and we certainly didn't know I'd been selected. We talked about what might happen if I became an Astronaut and what we might be giving up. I had a good, responsible billet in the Navy and could look forward to the possibility of getting a squadron command. In short, we were just about as comfortable and secure as a military family can be. We talked this way for a while and then my wife didn't say anything for a few minutes. Finally she said, "What are you bothering to ask me for? You know you'll do it anyway."

'THIS IS SOMETHING I WOULD GIVE MY LIFE FOR'

NAME	Carpenter, Malcolm Scott	AGE	34
HEIGHT	5'10 1/2"	WEIGHT	160
HAIR	Brown	EYES	Green
BIRTHPLACE	Boulder, Colo.	RANK	Lieut., USN
FLIGHT RECORD	2,800 hours (300 in jets)		
HOBBIES	skin diving, archery, water skiing		
MARITAL STATUS	married, four children		

by SCOTT CARPENTER

ONE day while we were preparing to leave California to move east for the Astronaut program, the landlord showed some prospective new tenants through the house we had been living in for eight months. One of them, a very pleasant-looking middle-aged woman, came up to me with a puzzled expression on her face.

"Are you one of the spacemen, Mr. Carpenter?" she asked.

"Yes, I am," I replied.

"Well, you're a nut," she said firmly and walked away.

I'm sure that there are a lot of completely reasonable people who would agree with the lady that this is a wild endeavor implemented by foolhardy men. Naturally I think she's wrong. I think it's a sound and necessary venture implemented by thoughtful and sensible men. But there is no use denying that there is an element of risk here, an element we will all want to calculate very finely.

Project Mercury came up at a very good time for me. Part of every naval officer's duty, whether he is an aviator or not, is to serve regular tours at sea. Such duty was at hand for me, and I looked on the whole idea with distaste. I was scheduled to serve on an aircraft carrier for two years. I would be separated from my family for long periods of time, and I would have a nonflying job, a very bleak prospect for a pilot. The orders confirming my selection as an Astronaut arrived barely in time: I paid hurried last respects to my bewildered and somewhat irritated captain five minutes before the ship left San Diego for the western Pacific.

I was a little surprised at being called in the first place. I hadn't really been flying high performance airplanes for two years, and though I did test some of the Navy's jet fighters, mostly I had been a big plane driver with the majority of my hours in multi-engine prop-driven aircraft. In my case I believe my final selection was based on an excellent record in the physiological stress tests rather than on flying experience.

My special field of interest in the program is communications and navigation. Actually navigation, which might be defined as the continuous correction of infinitesimal errors, is a misnomer here. Once the capsule is separated from the booster on the orbital firing, you're committed to your course. There is no correction except downward. We will have instrumentation to figure position and the pilot will have charts of the earth under his track. The periscope, whose eyepiece is an eight-inch lens placed two feet from the pilot's face,

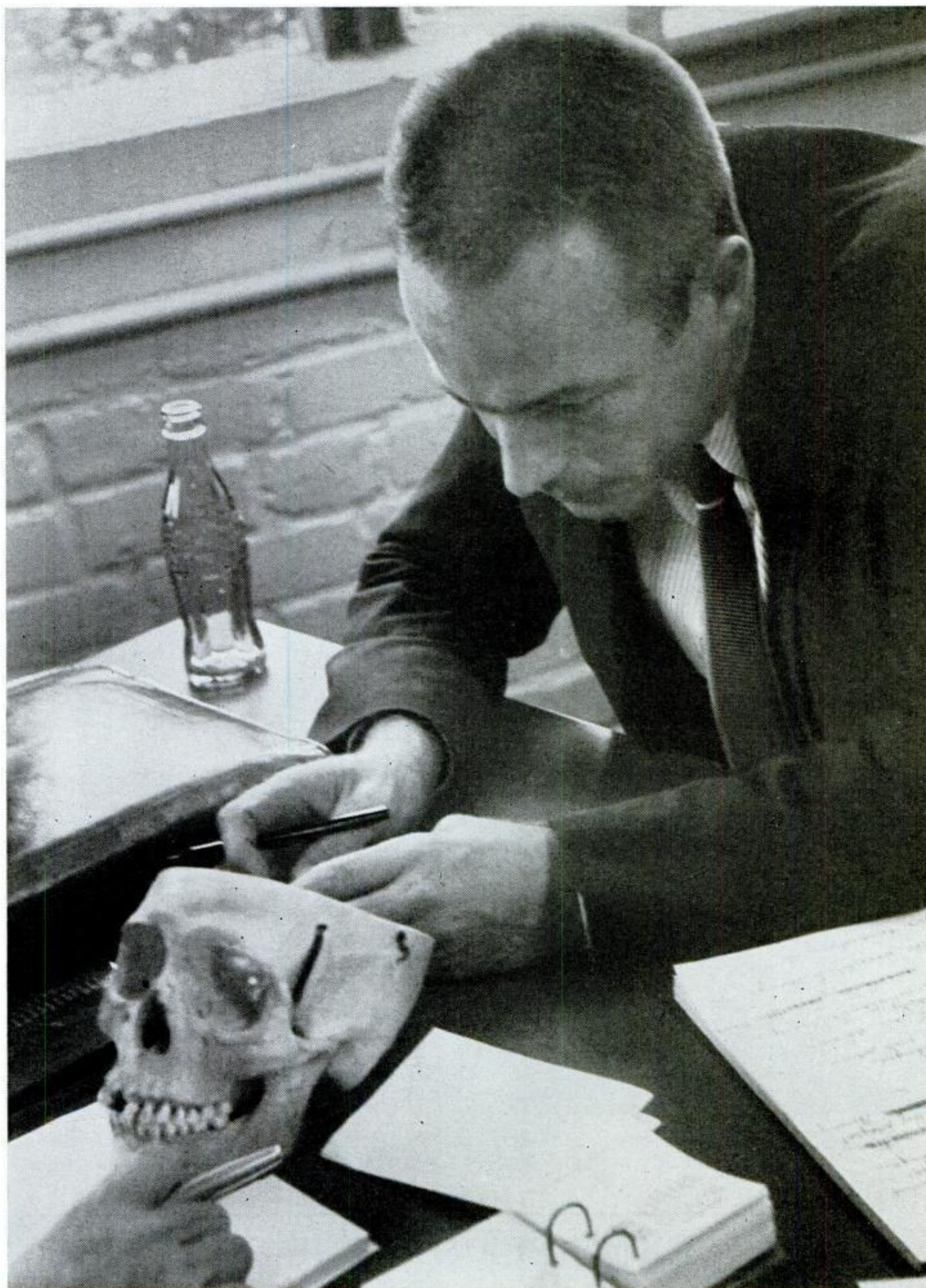
should give a marvelous view. At orbital altitude its 190° field will offer a front-to-back vista covering 1,700 nautical miles.

I think about the trip a great deal. I cut an advertising photograph out of a magazine which shows a missile off in the distance with a capsule on top of it. The camera is down low, and it shows the legs of a man who is walking out to the missile. He is wearing a pressure suit and carrying a helmet in his hand. The time is dawn. I often think about taking that walk for the first time.

I think about it riding in the centrifuge as we run through the acceleration profiles we will get in the Atlas. You sit there and you feel the G forces, and as they build higher and higher, you fight with all the strength of your mind and body to stay conscious. The machine becomes an enemy that must be beaten. But

even in the midst of this struggle, you know where you are. No matter how difficult it is, you're just going around in a circle, and someone can always stop the machine. But if you close your eyes you think that each one of the Gs you feel is taking you farther and farther away, that you're going off into a great unknown. It changes the picture somewhat.

I volunteered for this program for a lot of reasons. One of them, quite frankly, is that it is a chance for immortality. Most men never have an opportunity for this. My father wrote me a letter saying that he was overwhelmed I was getting a chance to pioneer on such a grand scale. He's right. The scale is grand, the grandest I can imagine. This is something I would willingly give my life for, and I think a person is very fortunate to have something he can care that much about.



MULLING OVER SKULL, Carpenter learns why wires had to be inserted in his ears during physical

exams—to measure blood temperature. Men study physiology to report on body reactions during flight.

'THIS IS GOING TO BE ONE HELL OF A THRILL'

NAME	Slayton, Donald Kent	AGE	35
HEIGHT	5'10 1/2"	WEIGHT	160
HAIR	Brown	EYES	Blue
BIRTHPLACE	Sparta, Wis.	RANK	Capt., USAF
FLIGHT RECORD	3,400 hours (2,000 in jets)		
HOBBIES	hunting, fishing, guns, archery, photography, skiing		
MARITAL STATUS	married, one child		

by DONALD SLAYTON

I FIGURE that until Project Mercury came along, I had the best job a military pilot could have. I'd been in on the testing of high performance jet aircraft for three years, and it was exciting and rewarding work. You're always evaluating your vehicle, you're always running into things that nobody's written the book on yet. The situation can come unstuck right now, and you have to learn to think and act in one motion. If you think you're in trouble and you're not, you can get yourself in a serious mess very quickly. And sometimes in

a real jam you have to ride it a way and work it out by plain old trial-and-error.

I was flying a performance test in the F-105 not long ago, and as I came subsonic in a decelerating turn at about 38,000 feet, something happened and the thing broke off in about four fast snap rolls and wound up in an inverted spin. The F-105 had never been spun regularly before, much less inverted, so naturally there was no information to fall back on. I was very busy popping the speed brakes that open like petals around the tail and experimenting with various spin recoveries before the airplane finally unwound at about 10,000 feet. I was getting anxious to leave toward the last and was pretty nervous when I thought about it back on the ground. That's a \$15 million airplane.

By the time we got through the initial briefing on Project Mercury, it had become clear to me that nobody was going to be able to hack this flight but a pilot, and a test pilot at that. Though he won't have any control of the flight path of the capsule, the man inside is going to have to make quick decisions, quick evaluations and deal with problems nobody's had to deal

with before. There are bound to be problems. There hasn't ever been a new machine built that doesn't have them.

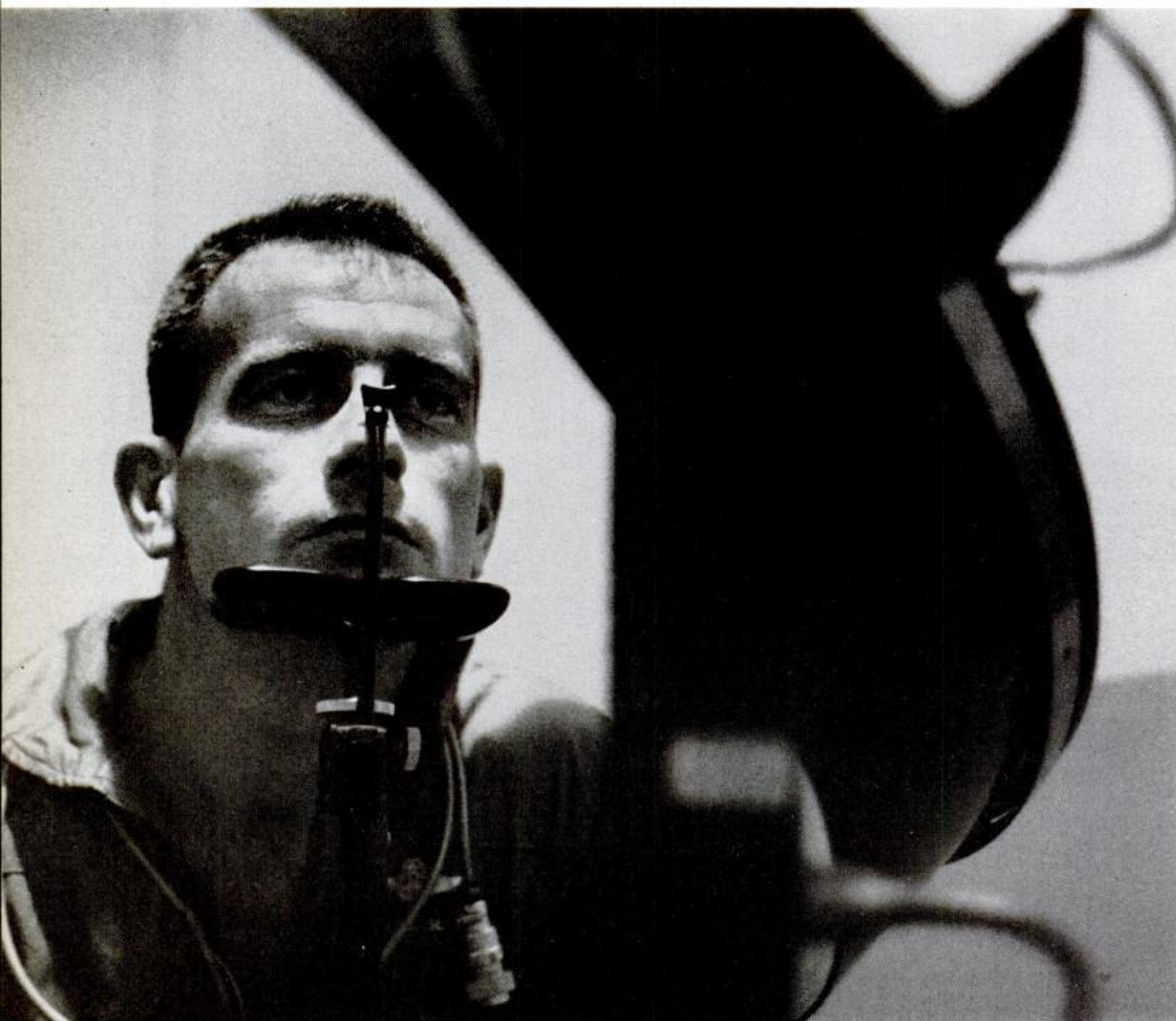
During the selection process for the candidates, we went through some physiological stress tests at the Lovelace Clinic in New Mexico and at the aero-med center at Wright-Patterson Air Force Base. I thought I did well on most of them, especially the treadmill and the centrifuge, where I was able to pull 9.2 Gs of acceleration before I blacked out. You build up a tolerance for Gs like anything else. We had run out of G-suits at Edwards, and for the last year and a half I'd been flying without one.

My special area of responsibility in the training program has been the mating of the Mercury capsule with the Atlas, which is the booster that will some day fire one of us into orbit. One of the principle items the engineers have been working on in this area is an "abort-sensing" system. This is a system that will tell the man in the capsule, as well as the crews on the ground, if a catastrophic failure is brewing in the missile beneath him. An abort could come almost anywhere in the early part of the mission: on the launching pad if the thing is getting ready to blow, in the first part of the flight a failure in the control system causes the missile to start winding around the sky. A special escape rocket, fired either automatically or, if the automatic system isn't working, by a pilot's "chicken switch," blasts the capsule away from the missile. Then the parachute opens and down you come.

The trouble with an abort on the pad is that the escape rocket carries the capsule only 2,500 feet into the air. The parachute has to open quickly and, since the thrust probably won't be quite enough to push the capsule out over the ocean off Cape Canaveral, the impact will likely be on the ground, which will be much more of a jolt than a normal water landing. Naturally none of us is expecting such an emergency to take place, but we have to be prepared for it.

I feel that I'm in on the ground floor of something that human beings will be concentrating on for the next 1,000 years—if we don't destroy ourselves in the meantime. It's possible that 50 years from now we're going to end up out of this solar system, batting around the universe, at least within our galaxy, investigating other stars and other systems.

Still, this first ride will be something to remember. The first time I got a good feel for it was last May at Canaveral. I'd never seen a missile until we took a look at an Atlas lying in a hangar. It is a huge machine. Then we went over to the pad and climbed up the gantry of one they had sitting up, getting ready to fire. Standing way up there, I put myself in the real situation: here I am now, let's say they've got a capsule here. No doubt I'm nervous and tense and probably scared. I climb in that thing and pull the cork and let her go. This is going to be one hell of a thrill.



SPECIAL EYE TEST is given Slayton as he prepares for centrifuge ride to determine the effects

that G-forces have on his peripheral vision. Doctors want to know if it is permanently narrowed.

IN NEXT WEEK'S ISSUE, ANOTHER 'LIFE' EXCLUSIVE:
THE ASTRONAUTS' WIVES WRITE ABOUT THEIR HUSBANDS



After a tiring day, Donald Slayton and Virgil Grissom take time out for a smoke



MEMORABLE REUNION makes a memorable picture as old comrades of World War II meet for a dinner Ike gave in London. This meeting with Winston Churchill, Field Marshal Sir Harold Alexander

(flanking Ike on the couch), and other soldiers and statesmen, evoked memories of victory and provided Ike with a happy personal moment. Seated left and right on couch arms are Field Marshal Sir Alan

Brooke and Prime Minister Harold Macmillan. Standing, from left: Ambassador John Hay Whitney; RAF Marshal Charles Portal; Intelligence Major General Kenneth Strong; Roger Makins, civilian aide in

IKE'S WAY AS FREE WORLD'S 'FIRST

As President Eisenhower ended his tour of Europe, a LIFE observer who followed him cabled this report on Ike's success in uniting the West as Nikita Khrushchev prepared to visit the U.S.

by **JOHN OSBORNE**

LIFE Staff Writer

BENEATH the glow of President Eisenhower's personal triumph in Europe, some basic achievements are visible.

First, the President succeeded brilliantly in his main purpose: to make certain that he has freedom of maneuver when he receives Khrushchev in Washington. Since the President has said that he will be talking with Khrushchev rather than negotiating, and that he will be talking only for the U.S., it might seem that he should not have had to visit Bonn, London and Paris to get the freedom of maneuver he wanted. But this was not necessarily the case. In his sessions with Adenauer, Macmillan and De Gaulle, the President repeatedly emphasized the importance he places

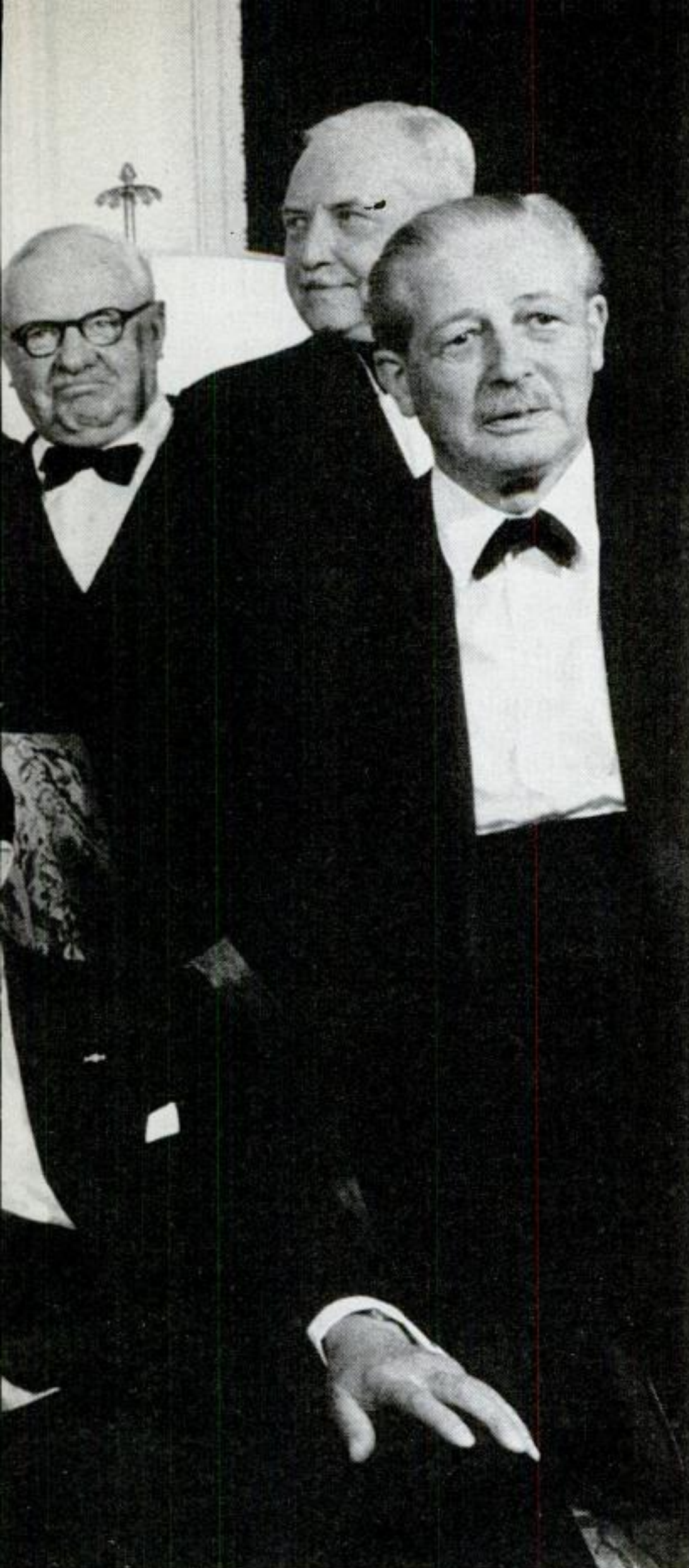
on their understanding of what he will be trying to accomplish with Khrushchev—and on their confidence in his ability to hold his own with the man from Moscow. Without that understanding and confidence he could not set out with the necessary assurance to "melt the ice" and feel his way toward a safe peace.

All other issues and concerns were secondary. To be sure, the President discussed many matters with the European leaders: disarmament, a further suspension of nuclear testing, France's plans for nuclear weapons, West Berlin, Algeria, the strains that General de Gaulle's austere concepts of French dignity and sovereignty have imposed upon NATO relationships. But questions of this sort interested the President mainly to the extent that they will affect his talks with Khrushchev.

The President did a great deal more than explain his purposes and demonstrate his competence to deal with Khrushchev. He made it possible for Adenauer, the symbol of stony resistance to Soviet power, and Macmillan, the advocate of "flexible" adjustment to that power, to assent with equal ease to whatever

line Eisenhower may choose to take with his Russian guest. The old chancellor can now go along with forms of conciliation that only two weeks ago would have entailed an intolerable loss of face for him. Similarly, Macmillan can associate himself with a degree of firmness that previously would have alarmed the British public. Even in France, where De Gaulle appears to stand majestically above ordinary politics and pressures, Eisenhower's presence has brought somewhat the same result.

The President achieved all this simply because, as his tour showed, he is now the first personage of Western Europe, and indeed of the free world. West Germany, Britain and France have long accepted the hard facts of American power and leadership. But Eisenhower's visit, and the mighty show of popular acclaim for him that it occasioned, dramatized and warmed that leadership in a way that gives both the President and his policies an overwhelming pre-eminence. A former British ambassador to Moscow, Sir William Hayter, rather brutally reminded his countrymen that when Britain attempts to lead the West nowadays,



Mediterranean; Deputy SHAEF Commander Sir Arthur Tedder; Lieut. General Sir Brian Horrocks; General Sir Hastings Ismay; Air Chief Marshal "Bomber" Harris; Lieut. General Sir Frederick Morgan.

PERSONAGE'

"nobody follows," and added that Eisenhower is "our obvious and only leader."

The extraordinary warmth of his reception obviously astonished the President, but he pressed the advantage with tact and skill. In Bonn, for example, his demonstration of personal affection for Adenauer came at a most convenient time for the craggy chancellor. To an increasing number of Germans, Adenauer had seemed to be confusing himself with God, and consequently he had been suffering a decline of prestige and influence. In London, during his unprecedented TV appearance with Macmillan, the President sat by placidly while the prime minister got in some subtle licks for his Conservative party, which he seems destined to take into a national election this fall. The President, in short, was manifestly willing to let his hosts make a political asset of their identification with him if that would strengthen his hand with Khrushchev.

In his private sessions with his hosts the President took some calculated risks. For instance, he left Chancellor Adenauer with the definite impression that no substantial conces-

CONTINUED



JUBILANT IKE, flanked by De Gaulle and statue of "Science," acknowledges warm reception at Hôtel

de Ville in Paris. Here he moved Parisians deeply with now-famous salutation: "Je vous aime, tous."



FLAG-WAVING FRENCHMEN, holding miniature models of U.S. emblem, cheer President's passage

on Champs Élysées. Adapting "I Like Ike" slogan to Gallic pronunciation, crowds yelled "Ee Leek Eek."

IKE'S WAY CONTINUED

sions would be offered to Khrushchev on such vital matters as West Berlin, West Germany's arms-length relationship with Communist-run East Germany, or the continued enlargement and nuclear arming of West Germany—a position which, on its face, would seem to preclude any conversation at all with Premier Khrushchev. But Harold Macmillan's spokesmen, in contrast, conveyed the British impression that the President was ready to talk—meaning to bargain—on precisely these matters, although with the proviso that nothing “essential” would be bargained away.

Just how the President managed to leave behind these somewhat contrary estimates without contradicting himself or deceiving his hosts—as he clearly had not—was a secret.

When the President did speak out, however, he showed himself to be both incisive and thoroughly informed. His performance was particularly effective with Adenauer, who was said to have been alarmed less by the mere exchange of invitations between Khrushchev and Eisenhower than by a fear that the President might make some unwitting mistake in the face-to-face meetings. But it was also said, after Eisenhower had left, that the President had completely dispelled the chancellor's doubts and left him a “very contented man.”

Eisenhower's give-and-take with Adenauer provides a good example of how the President handled himself. He listened with quiet respect when Adenauer argued that difficulties with France have arisen not so much from De Gaulle's imperious personality as from the



EVIDENT SINCERITY, Ike's great asset during trip, shows plain in his face after a meeting with General de Gaulle on the first day of his Paris visit.

situations with which De Gaulle must deal. When the chancellor pressed Eisenhower to meet De Gaulle at least halfway in his demands for a more prominent French role in NATO councils, the President said pacifically that he was prepared to guarantee De Gaulle all the consultation that he desired on mutual problems. But, Eisenhower said firmly, he did

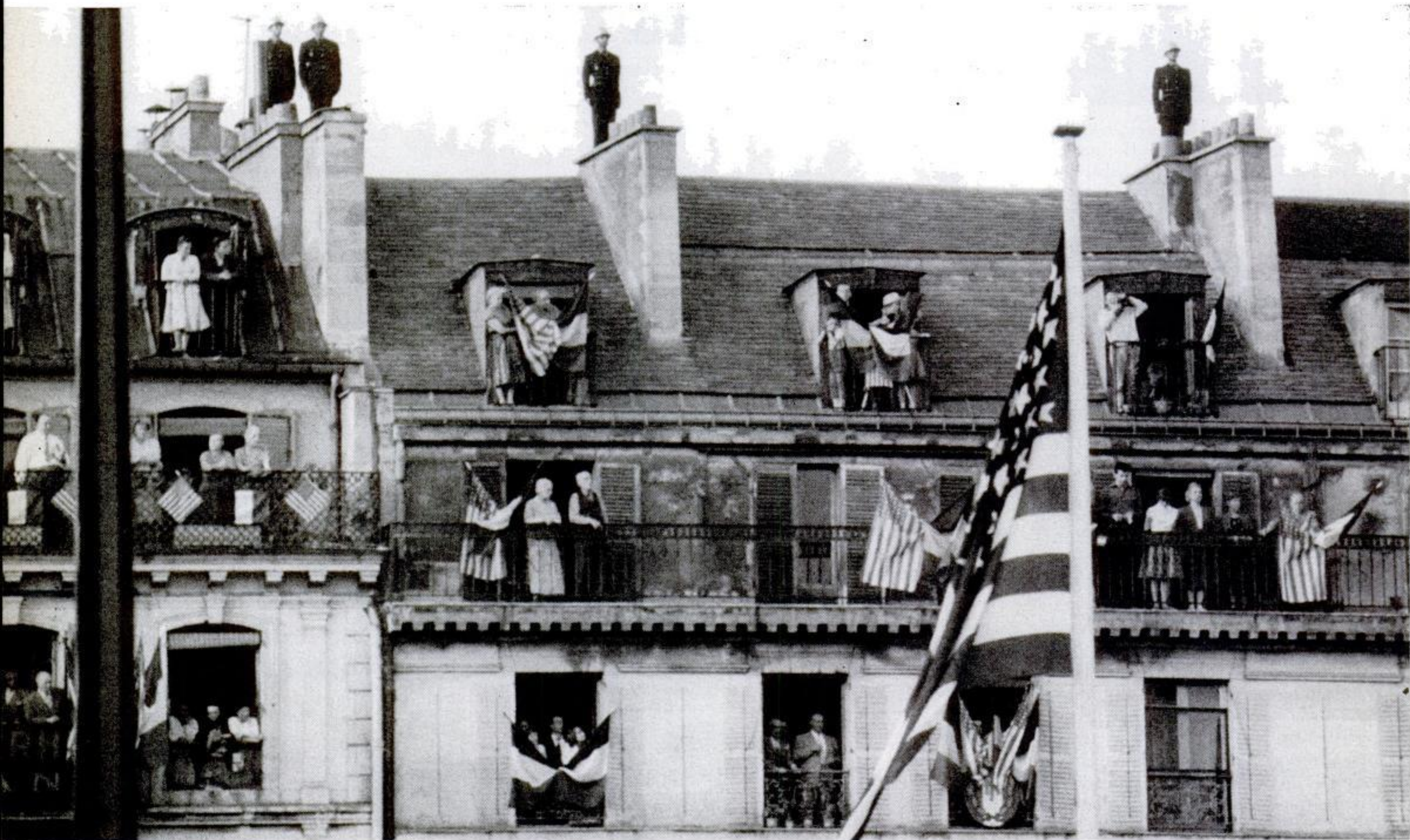
not wish to upset the NATO structure with changes that would only complicate it.

One of the few concrete suggestions that Eisenhower made to Adenauer was that Bonn might do more to cultivate working contacts with the Communist East German government. When Adenauer retorted that the East German government was to blame for the lack of communications, Eisenhower dropped the matter. But he had made his point.

The President's most serious problems of the tour—i.e., those most likely to weaken his position with Khrushchev—awaited him in Paris. Yet even the frost around General de Gaulle had begun to melt before Ike arrived.

When the Khrushchev-Eisenhower visits were first announced, De Gaulle had remarked with disdain, “Now we have a lone rider who seeks to go to the enemy camp.” But by the time he greeted the President, De Gaulle had decided that “the lone rider” might be off on a worthwhile journey. Although French-U.S. differences remained after the visit, it was clear that both presidents regarded their reunion as a great success and a fitting climax to the tour.

That this feeling was shared by some other Frenchmen was revealed in a *L'Express* editorial by Jean-Jacques Servan-Schreiber, a brilliant foe of De Gaulle and a critic of the U.S. Two weeks ago, said Servan-Schreiber, most diplomats agreed that Eisenhower “could not consider himself mandated to speak [to Khrushchev] in the name of the Allies. . . . Today all that appears thoroughly stupid. . . . Eisenhower returns to Washington to await Khrushchev with a political force enhanced by the overwhelming approval of peoples of Europe.”



UPSTAIRS IN PARIS, windows sprout U.S. flags crossed with French *tricolore*, an impressive show of affection for the triumphant President as Parisians wait on balconies to see Ike pass. Firemen stationed on roof are special security guards.

MEANWHILE IN MOSCOW, Ike's guest in the U.S. this week, Soviet Premier Nikita Khrushchev, amid his countrymen, joins up for another look at the fashion show at the U.S. exhibit. Deputy Premier Anastasy Mikoyan is next to him.



There is a new sniff in the political air on both sides of the Atlantic. In Britain and in the U.S., political parties are no longer making their pitch on the bread-and-butter issues of an abundant life; the abundant life is already a fact. Lacking the old issues which once stirred fiery passions and class warfare, politicians now seek new (if bland) issues in the very problems of abundance. Samples:

► The British Labor party's 26,000-word policy statement, issued last week in preparation for a likely fall election, fought shy of the old socialistic trimmings (nationalization is now almost a horrid word). Instead, the Laborites address themselves to the problems of leisure (they urge spending for more sports and recreation facilities), and encouragement of the arts (they want a national theater).

► Swimming in prosperity, both countries are witnessing the blurring of class lines in the emergence of a growing and thriving middle class to which both the language and the psychology of "class war" is obsolete. While a fanatical rump of the Labor Party still cries for abolition of "public" (private) schools, other members eagerly put down their children's names for admission. The big problem for Labor's leaders is to find a policy that captures the hearts and minds of the new, prosperous worker who is deaf to old slogans. Noting the peculiar softness of Labor's appeal, the London *Observer* said drily, "Whatever the Party lines on which the general election is to be fought, they are obviously not going to be bread lines. . . ."

► British Labor's American counterpart, the militant New Deal-Fair Deal wing of the Democratic party, is similarly fanning the air for solid issues. In a policy statement seeking to provide some, Braintruster-Historian Arthur Schlesinger Jr. recently noted: "Today we dwell in an economy of abundance." So what then? "Instead of the quantitative liberalism of the '30s, rightly

dedicated to secure the economic basis of life, we need now a 'qualitative liberalism,' dedicated to bettering the quality of people's lives and opportunities."

► Another Fair Dealing philosopher, John K. Galbraith, is unhappy with abundance because he thinks it produces *too much*—too much, that is, of frivolous things and gadgets, and not enough of schools, hospitals, parks, etc. Galbraith sees the issue in transforming (by taxation or other government control) our economy's "product mix" to yield more of the needed social services. His goal, too, is quality—however debatable his means.

Thus the new catchwords, the new issues, the new political atmosphere take form as the booming free world prepares for the explosive surges of the '60s—exploding populations, mounting industrial capacity and output, a growing demand for higher standards not only in education (*see below*) but in every field of life and thought and work. Walter Reuther foresees the day when his auto workers will spend their spare time painting or playing the violin. A cultural explosion bids fair to flourish in a general thirst for improving our national culture and raising our sights. The shaping battle cry is not for the *abundant* life, already achieved, but the *better* life—to transform abundance into excellence.

There seems to be a feeling on the part of many Americans that abundance is not enough, that it may indeed be hollow unless accompanied by a greater feeling of personal worth and of national purpose. Perhaps this feeling has been long building, but its new dimension is the fact that the politicians of both sides are now beginning to discover it and seek ways of directing it. On that matter, we on this side of the Atlantic will have to await word from Chairmen Morton of the Republicans and Butler of the Democrats as to who brings whom "the better life" and how. What's up, Thruston and Paul?

OPPORTUNITY FOR THE GIFTED

Nowhere is the pursuit of higher standards (*see above*) more important than in the schools to which our children are now returning. And no aspect is more vital than providing adequate stimulus, instruction and challenge for gifted children.

The failure to do so not only bores and eventually discourages these fine minds, but wastes them as they lose interest and fail to go on to college. *Many of the most gifted high school students never go on to college.*

LIFE, which has stressed this problem in its series on "Crisis in Education" (LIFE, March 24–April 21, 1958) is glad to report substantial progress is being made to remedy the defects. In its current quarterly the Carnegie Corporation of New York, which finances and encourages such experiments, reports some promising achievements by colleges and high schools.

Here are some of the techniques being tried:

In the universities, Kansas, alarmed at the exodus of its young brain power, is going out to locate and recruit the most gifted high school students before they even apply for college. They are allowed to enter upper-level courses, carry more subjects than the average (one third of one class finished in three years). Louisville has been inviting 40 bright high school juniors selected by teachers and principals to spend the summer taking 10 weeks of regular freshman work for credit. Almost all enter college, including many who might not otherwise do so.

Boston College sometimes will give sophomore standing to gifted students, who are placed in separate, small sections, urged to complete their major by the junior year and spend the senior one on independent research and writing. Many such students go on to graduate work or choose professional careers.

Michigan, with a Carnegie grant, is establishing close liaison

with high schools, studying what they are doing to allow gifted students to skip grades, encouraging the best to seek college entrance through offering special honors courses. As sophomores, such students are also given an unusual, embracing science course ranging over wide fields of science.

The North Central Association has 100 high schools carrying on an experiment to spot superior students, encourage and counsel them; 90 schools are already providing special classes, the other 10 are giving enriched courses in regular classes.

What can you, as a parent, do to help prod your own local schools into giving more attention to the gifted? You could back the high school plan James Bryant Conant recommended after a nationwide study. Under it a youngster may be put in the advanced section of math, the middle section of history, in the slow section of a language—all depending on his special abilities. But children of all levels have the same activities.

Above all instead of letting an "equality" fetish cause us to condemn the best minds to mediocrity, we must realize that a stricter concept of excellence, and of standards of performance, ought to require individuals of *all* levels of ability to achieve the utmost within their limits.

One of the advocates of this concept is Dr. John Gardner, president of the Carnegie Corporation, whose organization has done much of the missionary work to spread it. The goal is to deal with each youngster in terms of his own potentialities and his own level of competence. "Then," says Dr. Gardner, "you can justly require that every youngster be stretched in terms of his own capacities; he must be expected to strive to the limit of performance of which he is capable." That includes, above all, the most gifted.



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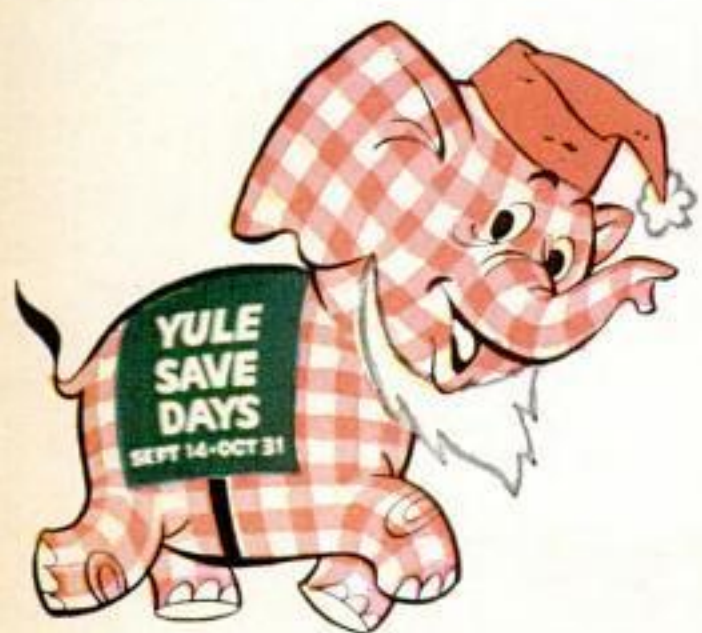
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KILLER'S COSTUME—cape, dagger and brass-studded belt—is displayed.

KILLINGS OF TEEN-AGE CAPE MAN

New Yorkers had barely recovered from a peace-shattering burst of juvenile crime (LIFE, Sept. 7) when they were struck numb by the horror of more killings. This time the three youthful victims, two fatally stabbed and a third wounded, were attacked in a dark playground by a marauding gang. It was not the familiar rumble between neighboring groups. The slayers came from another part of the city and their motives were hazy. The killer, a 16-year-old Puerto Rican who was called Dracula and wore a flashy cloak affected by some teenagers, said "We went to get the Irish and Italians. We heard Puerto Ricans were being pushed around."

The repetition of senseless brutality set off a frenzy of official action and reopened an old controversy. Some demanded use of nightstick methods—breaking up gangs, imposing a tough curfew. Others called for more educational soft-glove work within the framework of gangs. While other U.S. cities with youth problems of their own watched meetings between civic leaders and Governor Rockefeller, New York City made one strong move. It poured more police into the battle against teen-age crime.



VICTIMS' NEIGHBORS, angry and curious, watch from tenements and sidewalk as accused killers are

taken from police station on New York's West 47th Street. "Kill them, hang them!" spectators yelled.

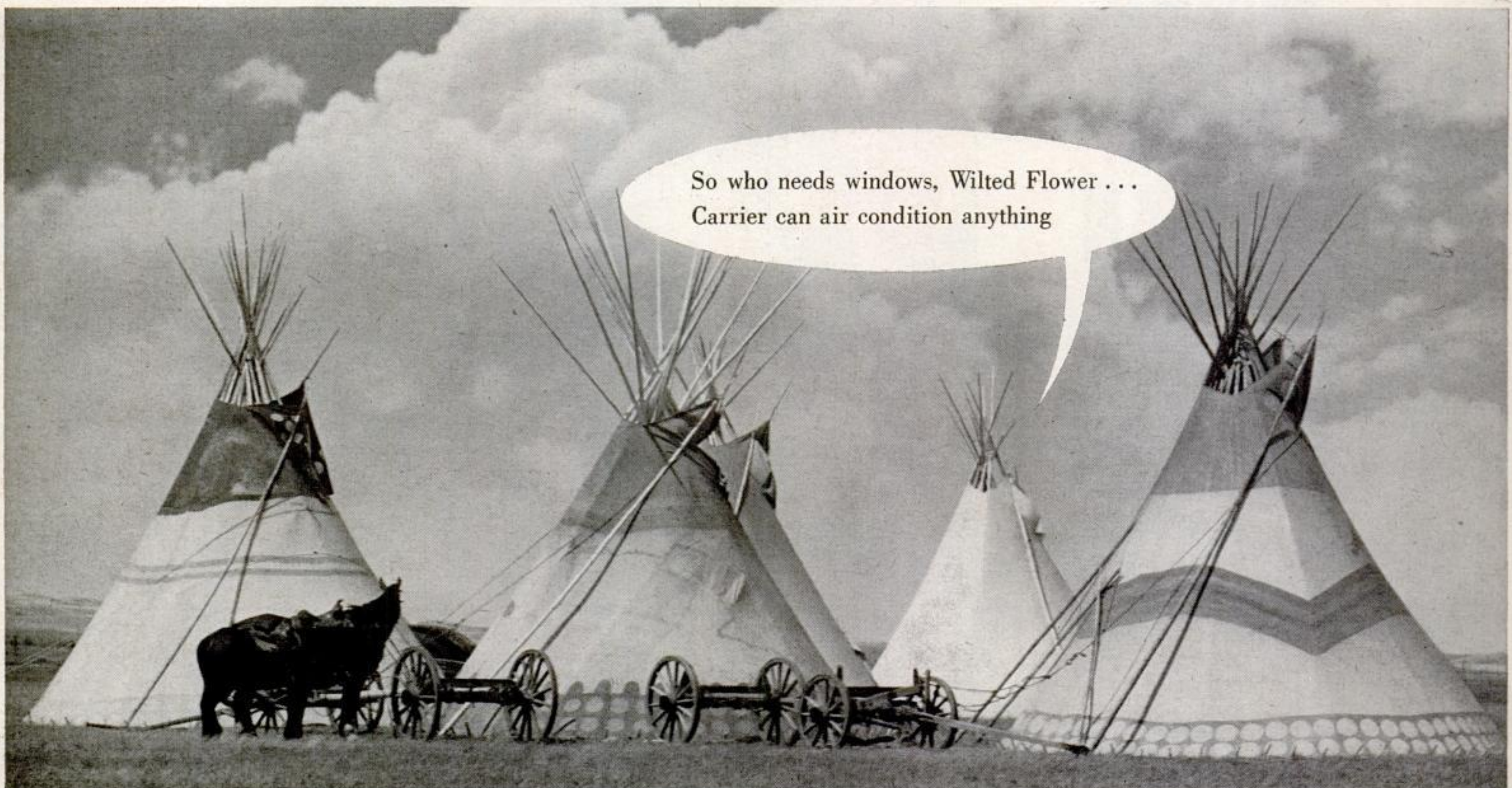


DEADLY PLAY AREA where attack was made is used for basketball and swinging in the daytime, for

teen-age boy-girl rendezvous at night. "It's so dark I wouldn't go in there alone," one policeman said.



SORROWING FATHER of victim Robert Young, 16, buries his face as coffin is carried into church



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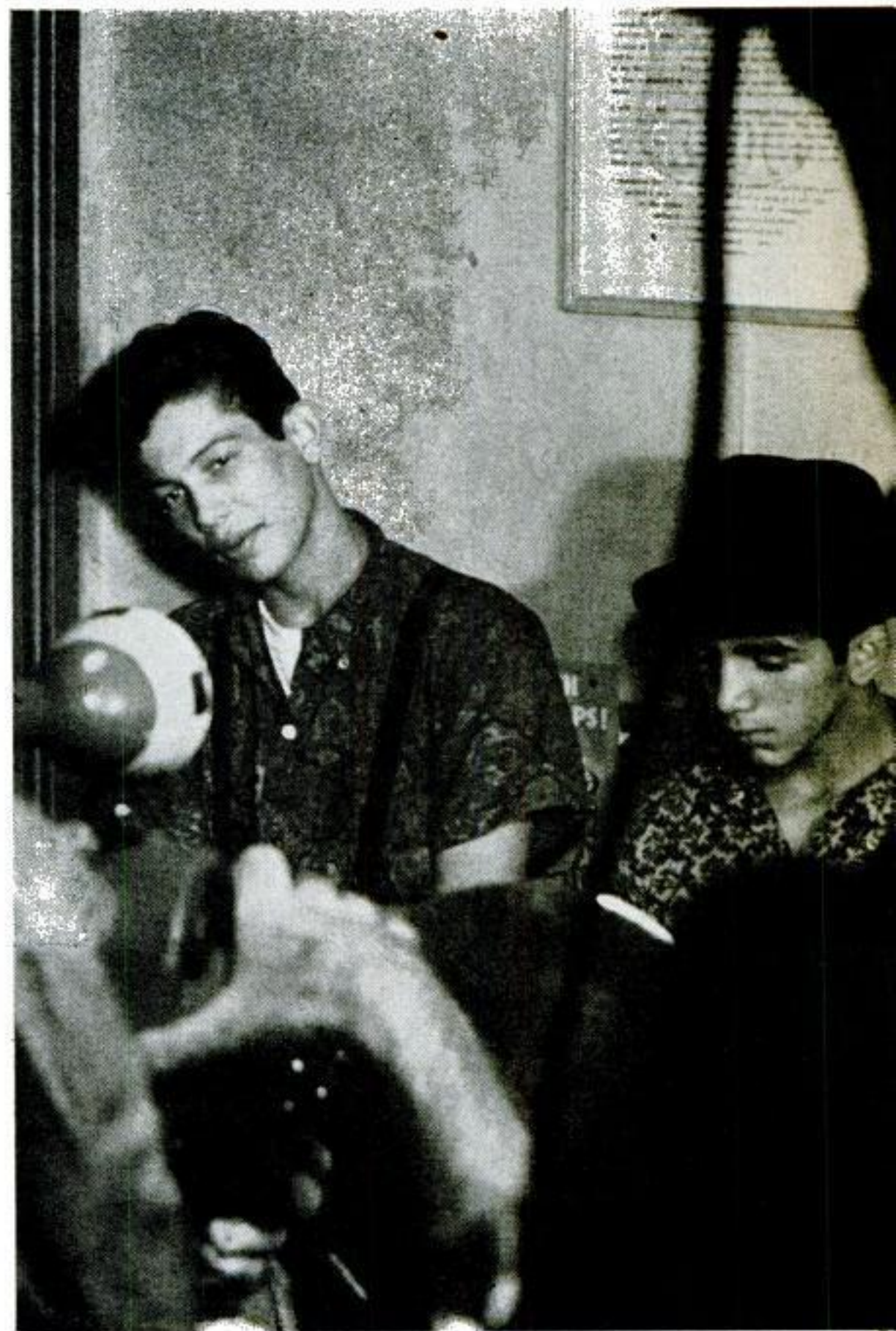


EVERYWHERE



for the funeral service. He is supported by friend (left) and another son. Young was sitting in the

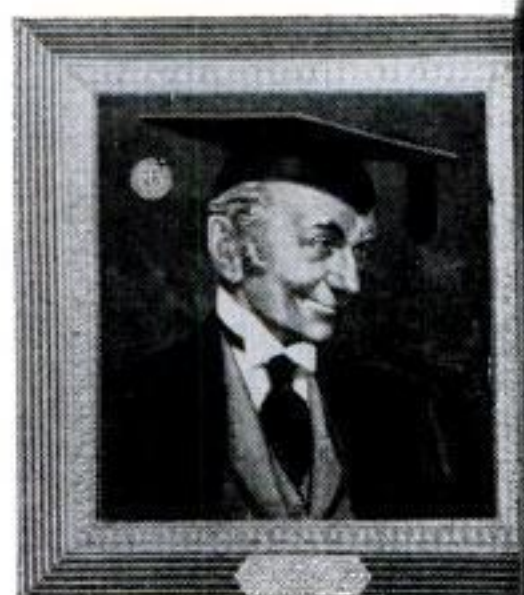
playground and talking with eight friends, including the killers' other victim, Anthony Krzesinski, 16.



CASUAL SLAYERS, "Cape Man" Salvatore Agron, Antonio Hernandez, 17, are booked for homicide.

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REINFORCEMENTS move single file into the Laotian army headquarters village of Samneua to strengthen the garrison against attack by the North Vietnam

invaders. Though this company came only 22 miles from Muong Peun, the march took two full days because the dense jungle is nearly impassable in some places.

LAOS FACES BEEFED-UP RED ONSLAUGHT



EXHAUSTED TROOPS of Royal Laotian Army take a welcome break during rugged forced march to

the battle front near Samneua. The soldier at right smokes a home-made cigaret wrapped in cellophane.

Hard-pressed kingdom pleads for U.N. troops

Even as Nikita Khrushchev was preparing to visit the U.S., his Communist allies in Asia were pushing their aggressions. The small kingdom of Laos (LIFE, Sept. 7) was in mortal danger as some 2,500 well-armed Communist troops crossed the border from North Vietnam and overran half a dozen Laotian army outposts. Moving close to the army's headquarters at Samneua, they threatened to capture the whole northeastern part of the country.

Communist invaders had crossed into Laos before, but last week's assault was beefed up for the first time with North Vietnam army regulars using cannon, mortars and other heavy weapons that showed they had no intention of making a simple hit-and-run attack. The tiny but well-trained Laotian army, hampered by poor communications and a tenuous supply line consisting solely of seven beat-up C-47 planes, seemed hardly able to cope with the Red invasion. U.S. aid was not enough, either, and at week's end Laos requested the United Nations to send troops to stem the tide, protect the kingdom's threatened independence.

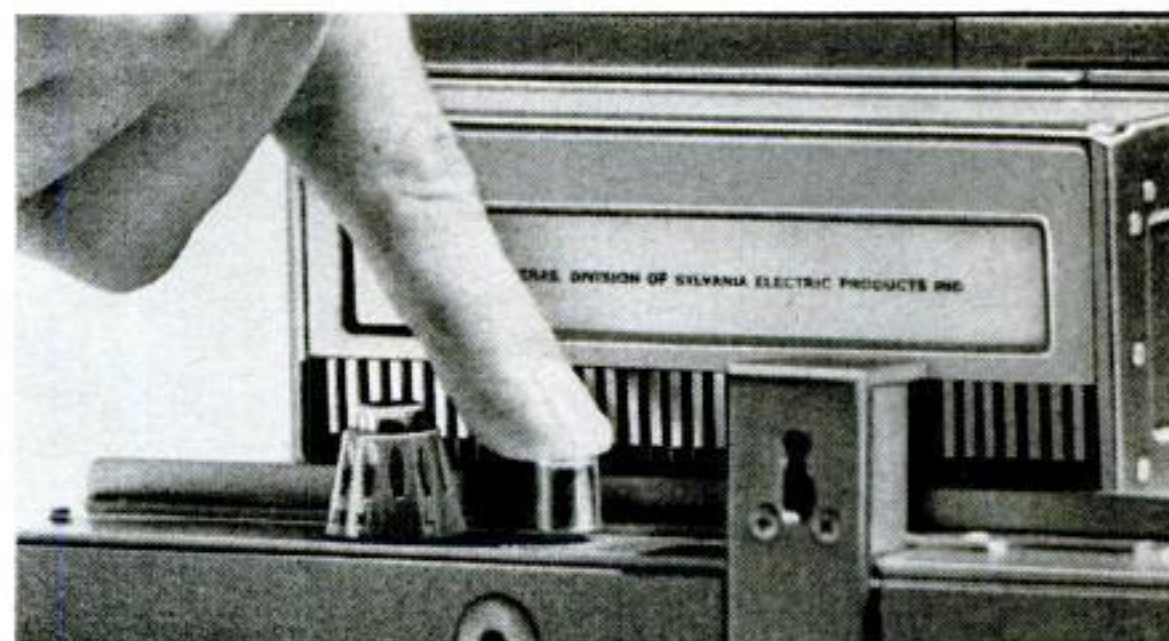


COMMUNIST PRISONERS roll fuel drums to flight line at primitive airstrip. Plane's wing bears the national emblem, three-headed elephant. ↓



CONTINUED

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REPAIRING AIRSTRIP at Samneua so the army supply line can be kept open, civilians tamp down rock with their

bare feet. Northern Laos has virtually no roads at all, and army supplies had to be delivered entirely by airlift.



CROSSING STREAM in jungle near the battle front, a Laotian patrol reconnoiters in search of the enemy. North

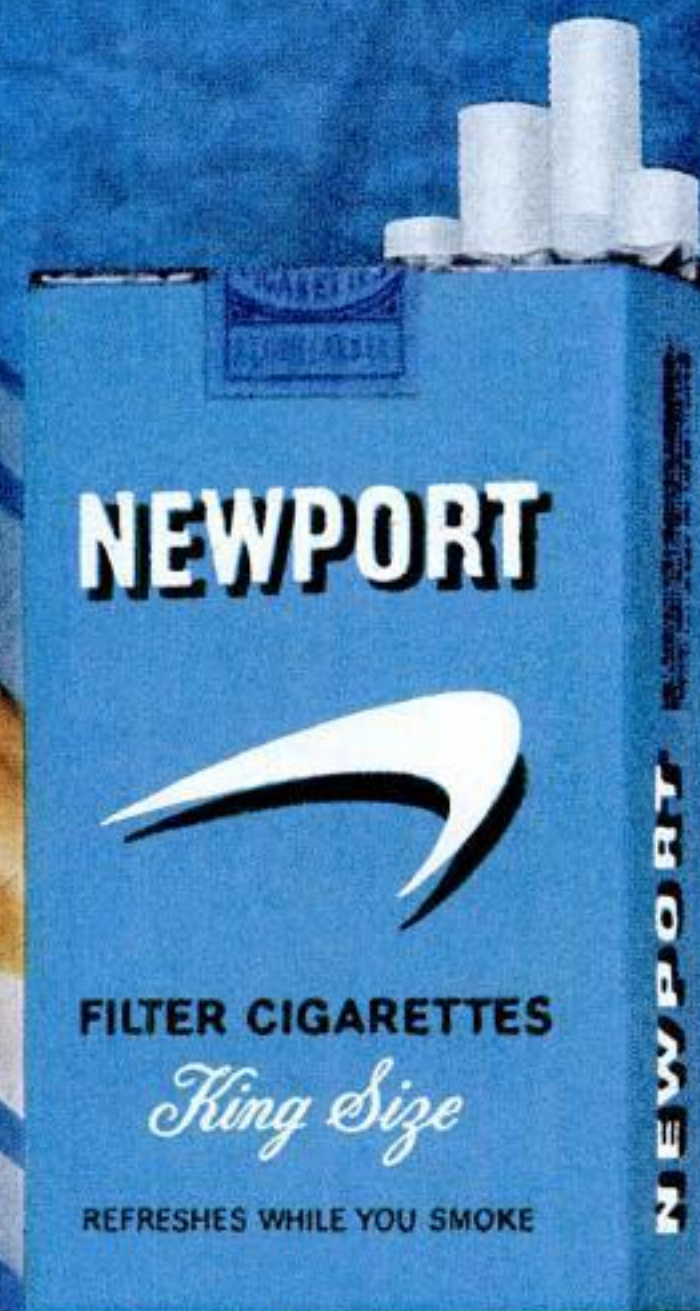
Vietnam invaders were extremely difficult to locate and rout out because the jungle provided such thick cover.

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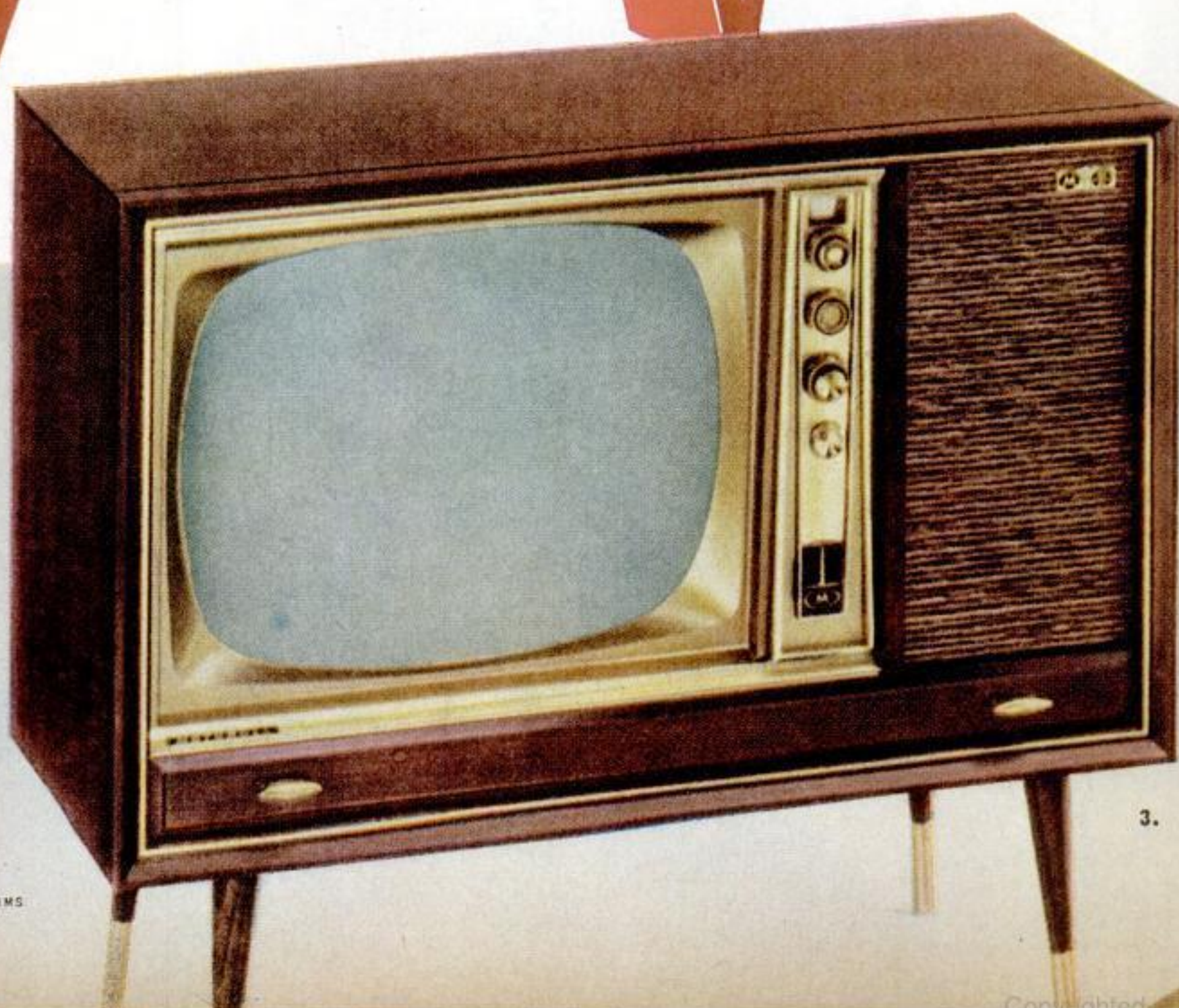
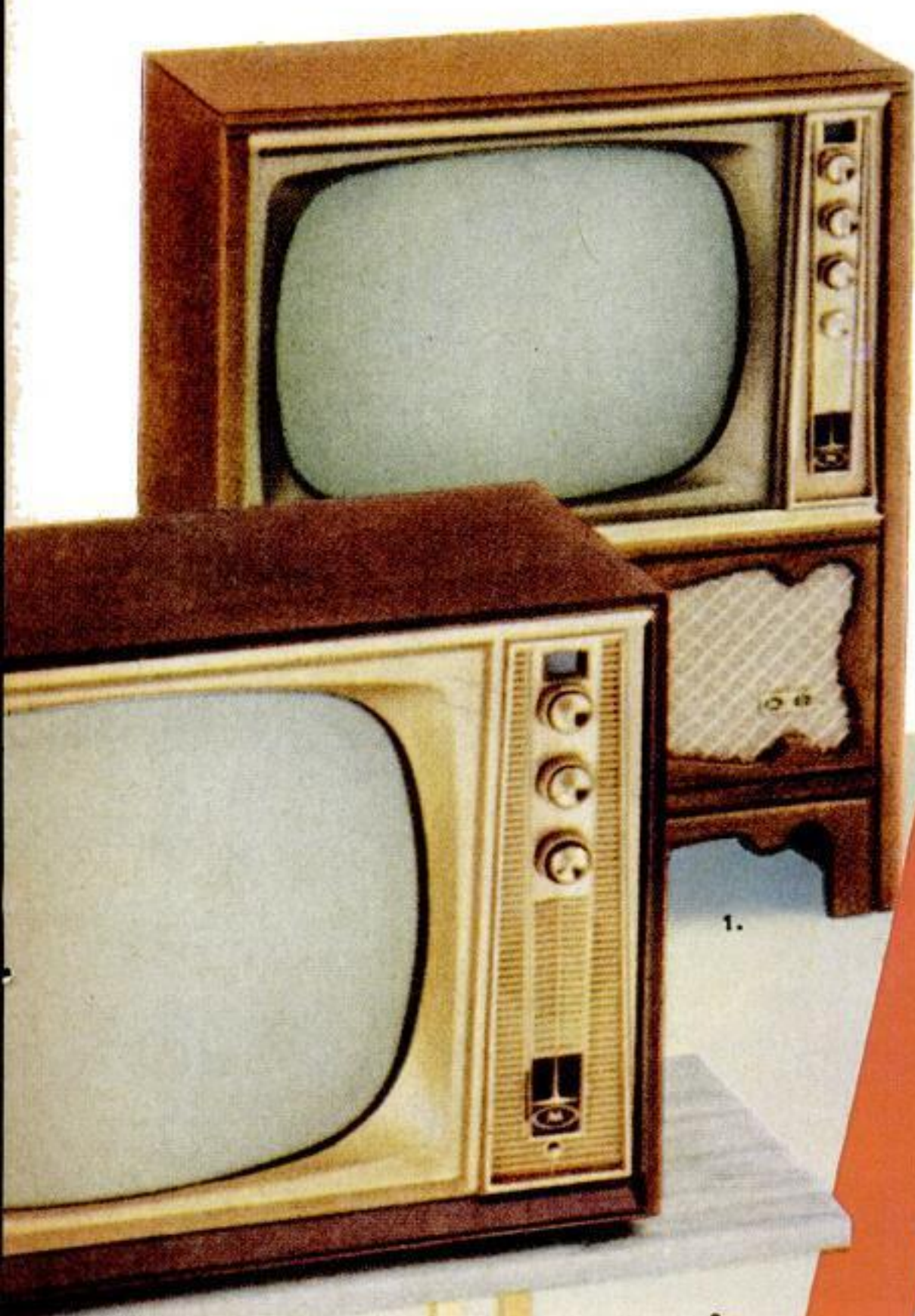
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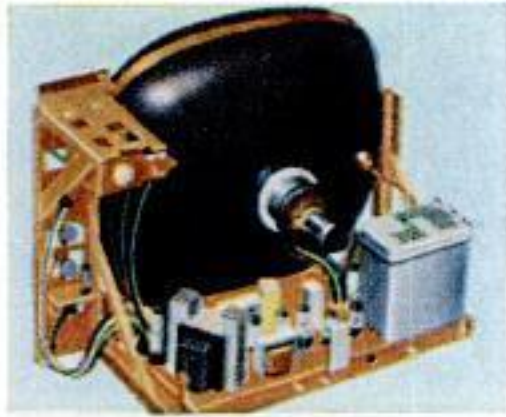
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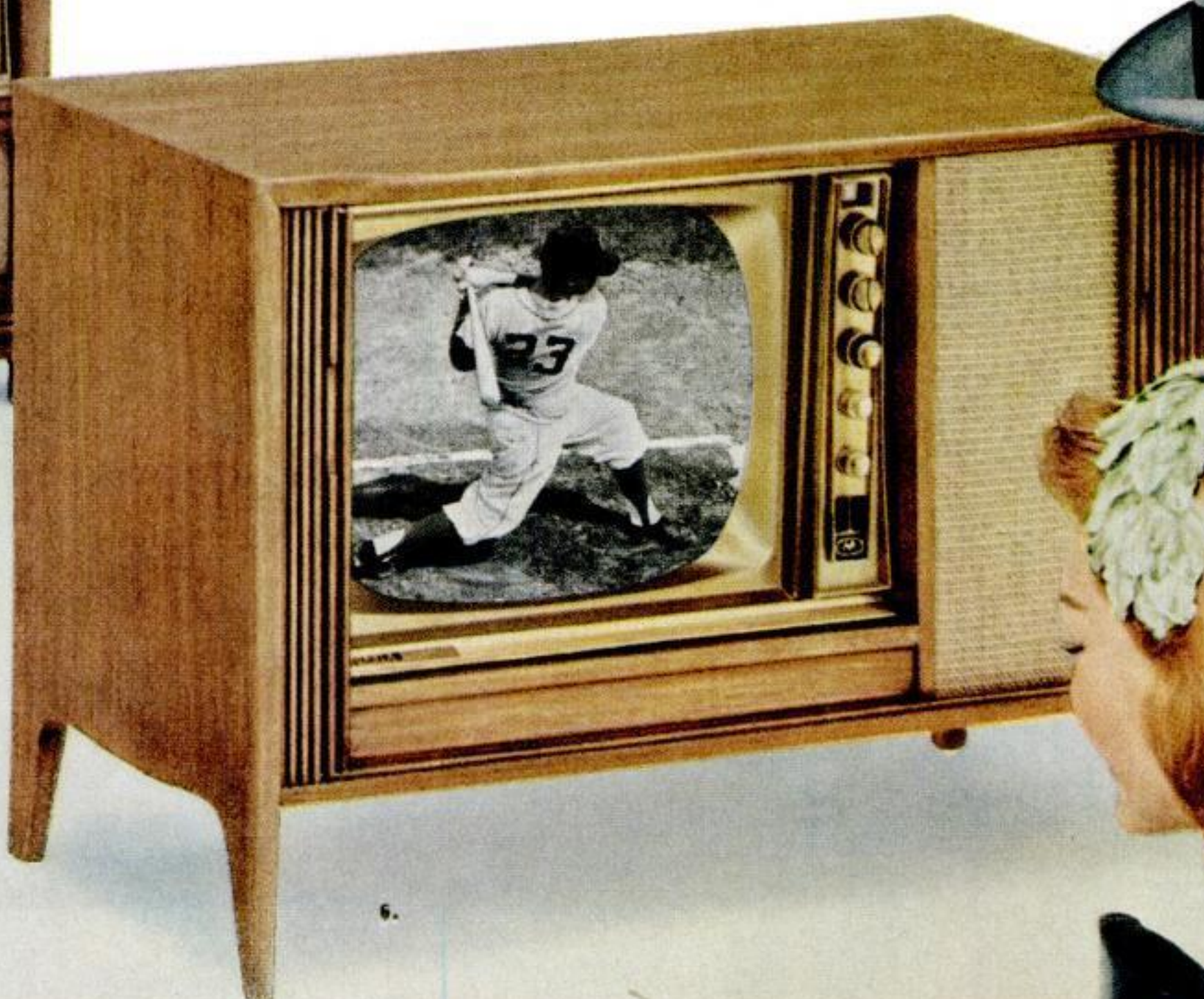
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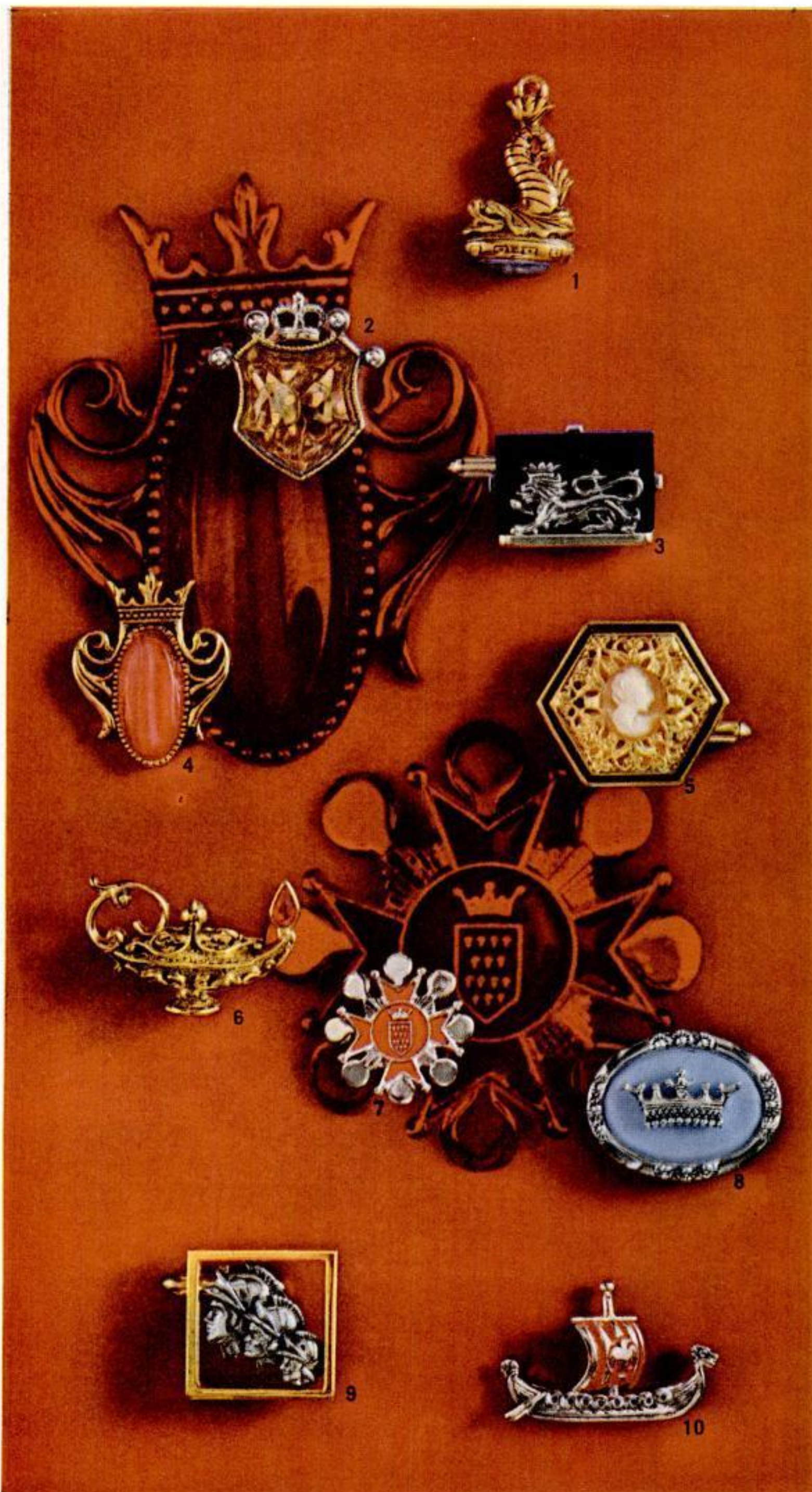
the *fresher* refresher

A full-page background photograph showing a diver in blue water, reaching up towards a large, coral-encrusted metal structure, likely a ship's cannon, which is part of an ancient wreck.

An Underwater Treasure Haul

In the waters off Bermuda, long a playground for treasure hunters, skindivers recently began to lift the loot from an ancient wreck by riding up on a coral-crusted ship's cannon. One of them had spotted remains of a hull 20 feet below the surface and, going down, had dug up Spanish coins and jewelry dating to the 17th Century. The discoveries indicated he had come upon an ancient Spanish galleon, which had sunk in these waters in 1642 laden with silver from South American mines. The underwater hunters in months of painstaking probing will try to uncover the Spanish treasure.

CONTINUED



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UNDERWATER TREASURE CONTINUED



CLEARING THE HULL, Diver Teddy Tucker, who found wreck, pushes sand away with a weighted paddle. Big porgy glides by ship's protruding ribs.



BUNDLE OF TOBACCO, one of many found, was part of cargo from South America. Pack consists of leaves twisted into rope and then pegged together.



SAILOR'S DAGGERS, perhaps carried by members of crew for self-protection in shipboard arguments, are completely encrusted with hard coating of coral.

CONTINUED



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1. Spray Paint. 12 oz. can \$1.39. 2. One Coat House Paint. Gal. \$6.45. 3. Rubber Base House Paint. Gal. \$6.45. 4. Aluminum Paint. Gal. \$6.45. 5. Auto Enamel. Qt. \$2.20. 6. FREE 48-page instruction booklet. 7. Roller and Tray. \$1.95. 8. Full line of fine brushes and other painting aids. Prices may vary slightly up or down, depending on geographic location.

UNDERWATER TREASURE CONTINUED



POTTERY AND SILVER lie in the sand, mark the ship as a rich one. Dish suggests elegant tableware. Coins bearing Spanish crest were minted in Peru.

The Strange Pleasures of Searching under the Sea

DIVERS searching wrecked galleons do not find treasures handily sealed in a great chest. The hurricanes that sank ships on the Bermuda reefs tore them to pieces with a force that pulled even gold chain apart link by link, scattering the fragments all about.

Covering the story of the underwater treasure hunt with LIFE Photographer Peter Stackpole, Reporter Charles Elliott dived down to the wreck. "To recover the pieces of the past," he writes, "you lie submerged face down in the green twilight, concentrating on the small section of oak hull before your mask. You carefully fan the sand between the ship's heavy ribs, sometimes uncovering gleaming bits of gold or bright blue pieces of pottery which three centuries of storms have failed to sweep away. For company you have a fish, who pokes at the ancient wood for worms. Unlike gold, which will not corrode in the sea, silver turns to grainy black silver sulphide under water. A little silver mourning ring which I fanned up was so corroded it crumbled to black dust in my hands. But if the silver is touching iron (which keeps it from turning to sulphide), it may be preserved.

"Underwater archaeology is a nuisance, a pleasure, and a surprise. The nuisance comes when you find that some usually simple tasks are impossible. You may not even be able to dig a hole, as I discovered when I tried to dig out a box stuck in the bottom. If I dug too fast, sand and pebbles flew up into my face so I couldn't see. When I was nearly done, the sand caved in all around the box again.

"The pleasure of probing under water lies in the odd feeling of weightlessness, in being able to lift with one hand the heavy chunks of ballast rock still littering the wreck. And the surprise is in finding things that would never have been preserved if they had been buried in the earth, or exposed to the air—vile-smelling but still potable water corked in a flask, and even leather shoe bottoms, which after 300 years still show that they were a little run down at the heels."



GOLD RELICS, scattered through wreck, include links of a chain that measured 40 inches put together, piece of bracelet, wire, ring, pendant, nugget.



If you like me
as I like you
You'll send for me
and my sisters, too

For you! 5 lovely prints of the little "Northern Girls"

Because so many of you have asked for them, we are happy to offer you this complete set of 5 beautiful full color prints—in 11" x 14" standard frame size. To get yours send just 25¢ in coin to cover postage and handling costs to Northern, Box A, Green Bay, Wisconsin.



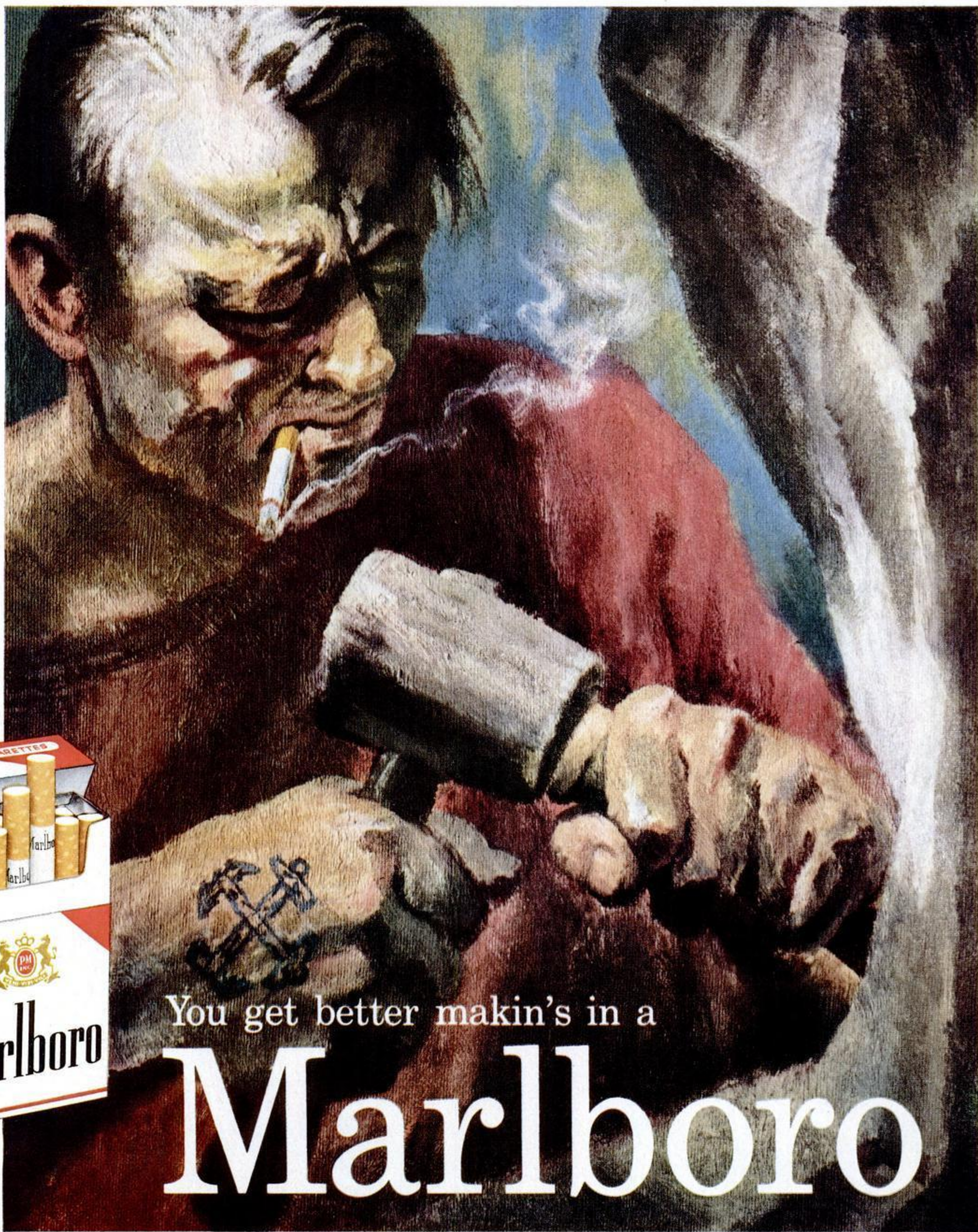
Softness is Northern

Northern Tissue is made with fluff
Nothing else is soft enough

In fresh, clean colors and purest white
Another fine product of American Can Company



The better the makin's, the better the smoke



Also in
King-Size
soft pack.



Sold and
enjoyed in all
the 50 states.

You get better makin's in a

Marlboro

If you're thinking of changing brands, tattoo this in your mind... Marlboro's exclusive *Filter-Flavor Formula* gives you flavor you can get hold of. The improved Marlboro filter does what it's there for... You're smoking better when it's Marlboro.



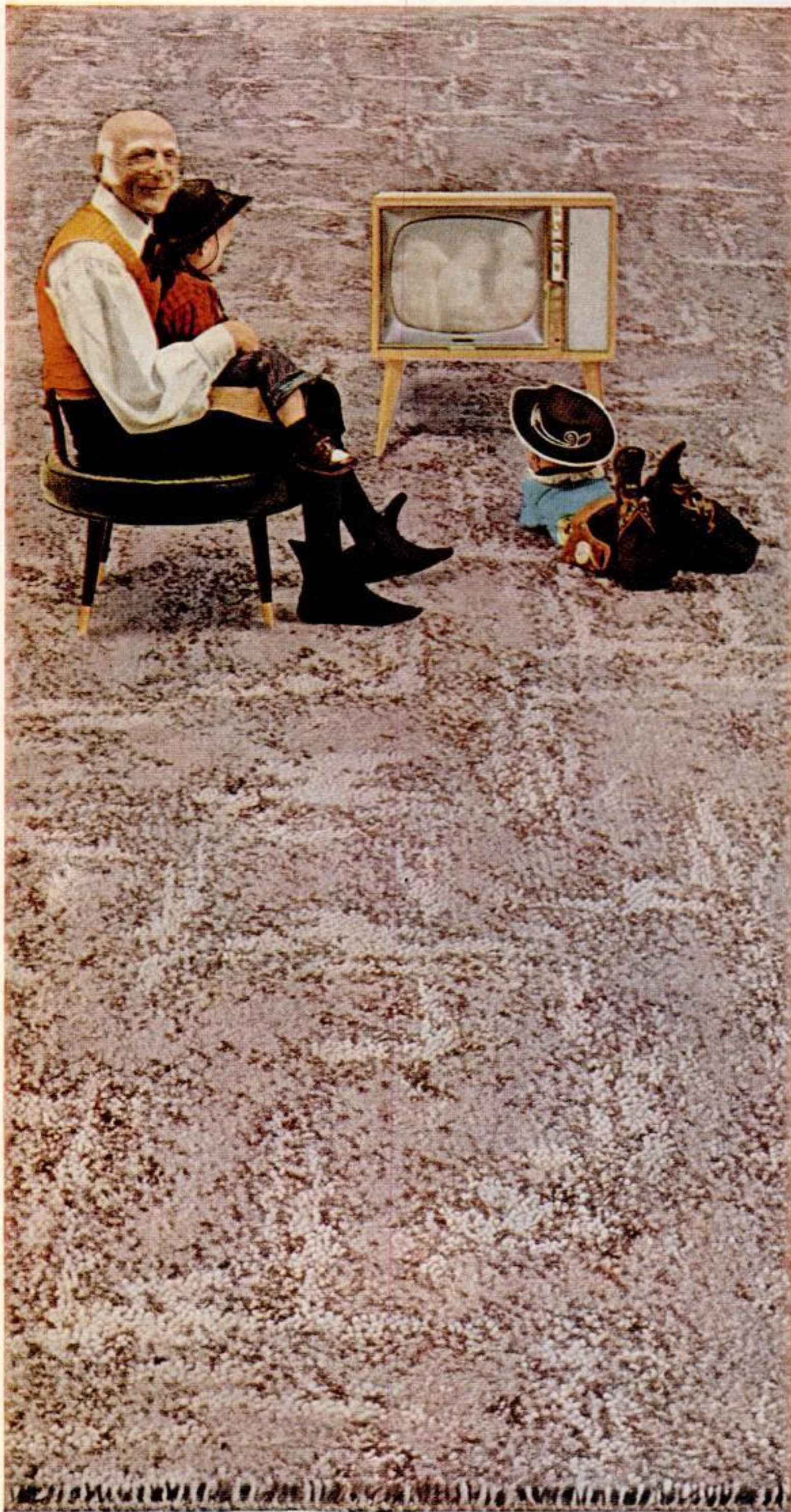
Snappy Wrap-around for Suzy

A favorite trapping for the glamor girl of the 1930s, the Hollywood wrap introduced by Marlene Dietrich, is now a favorite of a present-day glamor queen, Suzy Parker, the famous model who became a successful actress. The wrap-around coat, which has the same snappy good looks as a trench coat, is in for a big revival and will be a wardrobe mainstay for many ladies this coming season. Suzy, who was a style setter as a model (*LIFE*, Sept. 23, 1957), owns a version of the wrap-around in cotton poplin (*next page*). She bought it slightly big and sashes it tightly around her 23-inch waist.

This fall the wrap will also be available in fur (*left*) and in tweeds. In more lavish fabrics it makes one of the most dramatic evening coats seen in many years.

RABBIT WRAP, sheared to resemble beaver (Pembroke Squires, \$300), is worn by Suzy as an evening coat over a long ankle-length knit dress (Ero, \$45). It can also be worn over suits for city street wear.

CONTINUED



Mr. Smith knows young mavericks give rugs a rough ride

Mr. Smith has the answer for homes full of kids in perpetual motion: beautiful, long-lasting, easy-to-care for Alexander Smith Floor-Plan Rugs. They're pre-cut and bound into finished rugs in 29 most needed sizes . . . at low ready-made prices. Mr. Smith is a valuable friend to families-on-the-grow. His Floor-Plan Rugs fit any room, any taste, any budget.

FLOOR-PLAN SERIES K (shown) . . . one of America's best loved, beautifully patterned carpets, of heavy plush and nubby-textured all-wool yarns. In a wide choice of lovely, colorful patterns, in 29 rug sizes. Also available in Touraine broadloom.

Alexander Smith

295 FIFTH AVENUE, NEW YORK 16, NEW YORK

WEAVERS OF FINE CARPETS AND RUGS SINCE 1845

WRAP-AROUND CONTINUED



RAINCOAT STYLE of beige poplin (Main Street, \$30) is Suzy's own. She bought it for her new film, *The Best of Everything*, but never got to wear it.



MOST LUXURIOUS VERSION of the wrap is of blond satin with mink collar and facing (Branell, \$575). Casual lines contrast with sumptuous fabric.



alive

with
flavor
...in
any
cup

Just can't beat that A&P Coffee!

Whether you sip it from the finest china . . . or drink it from battered tin . . . you're sure of a flawless cup when it's A&P premium-quality Coffee. After all, *this* coffee is freshly roasted, superbly blended, Custom Ground . . . the *only* nationally-advertised coffee that offers you three blends, seven grinds. Yet it *costs you less, much less*, than others of comparable quality!

EXCLUSIVELY AT A&P STORES



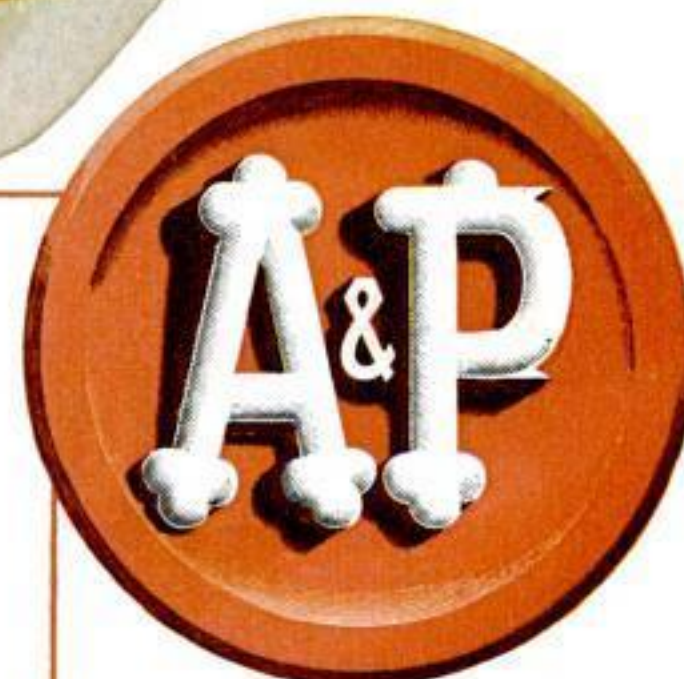
Mild and Mellow



Rich and Full-Bodied



Vigorous and Winey



100th
BIRTHDAY
Celebration
1859-1959



OPEN HOUSE
100,000th
Medallion Home
Hallmark of Electrical Excellence

ELECTRIC KITCHEN & LAUNDRY

ELECTRIC HEATING & COOLING

LIGHT FOR LIVING | **FULL HOUSEPOWER**

ELECTRICAL MODERNIZATION



SHOPPING FOR THE LATEST IN MODERN LIVING, THE JOHN STEENPORTS ATTEND OPEN HOUSE IN THE MIDWEST AT THE 100,000TH MEDALLION HOME. THEY LATER

EXCITING BOOM IN ALL-ELECTRIC LIVING

This year, tens of thousands of Americans across the nation are discovering the ease and joys of all-electric living. The wire—instead of a fire—is heating, cooking, and drying for them. Electricity is helping them clean, cool, time, toast, hear, see, and wash. The exciting new boom in all-electric living is on.

Proof of all this—the more than 100,000 homes already displaying the Medallion, new symbol of electrical excellence. The three-inch metal casting is awarded by electric utili-



Visit model home's in your community during National Home Week
Make your house a Medallion home and live better electrically



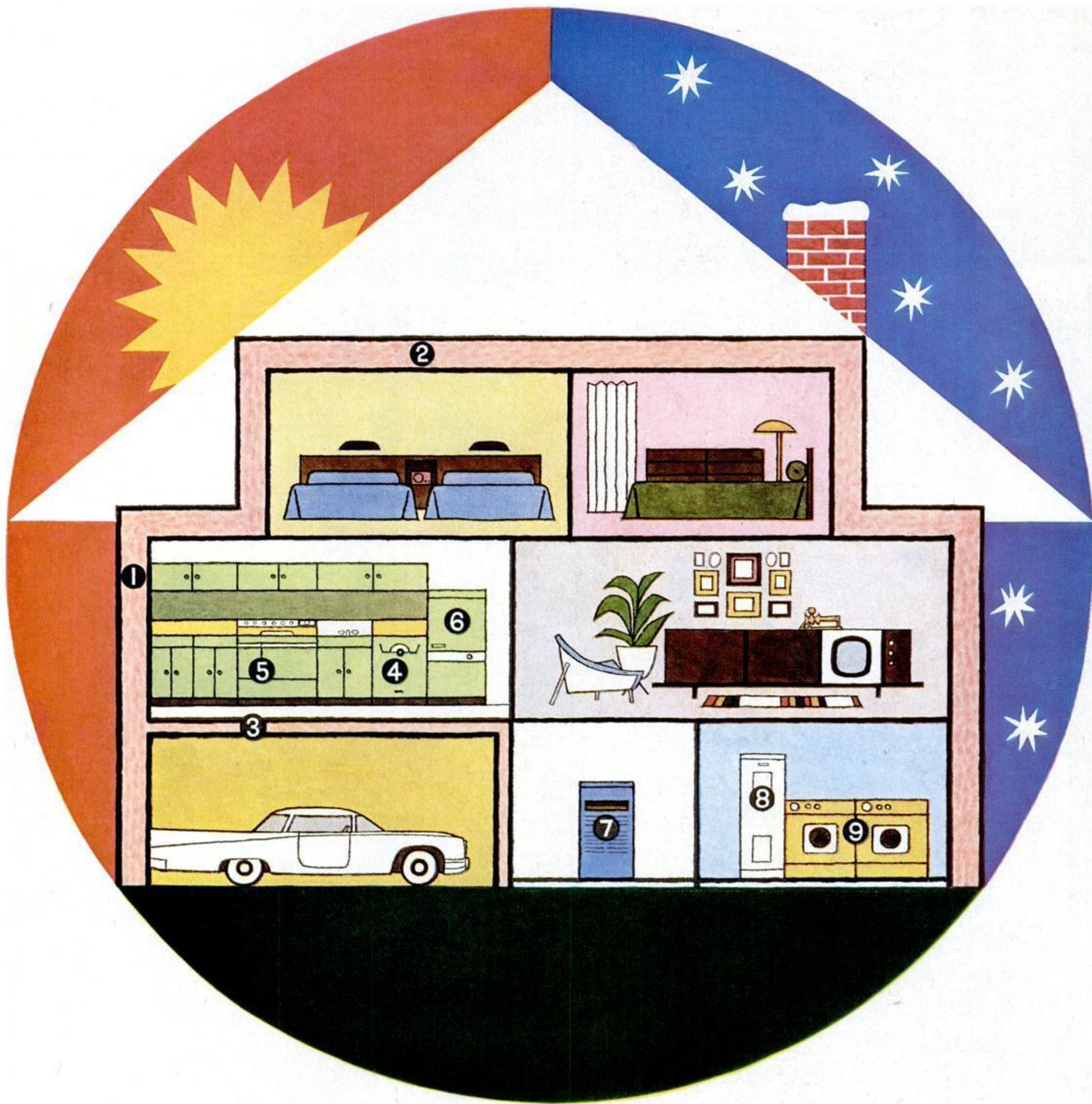
BOUGHT A MORE MODEST MEDALLION HOME (SHOWN BELOW) AND WERE AMAZED TO GET THE SAME ELECTRICAL EXCELLENCE BECAUSE OF MEDALLION STANDARDS

ties to identify any home—regardless of size, type or price—which meets proper electrical standards. The Medallion is usually embedded in an outside wall, walk, stair or patio. It gives tangible evidence of the home's modern light for living, the excellence of the home's work-saving appliances, sufficiency of circuits and outlets for full "housepower," and all-electric climate conditioning. Truly the hallmark of electrical excellence, the Medallion represents a dynamic upsurge in modern living standards.

The drive for all-electric living is contagious. Americans—whether they shop for a completely new Medallion home, modernize their present home up to Medallion standards, or buy just one electrical servant—are making this the "year of the Medallion"—biggest year yet for living better . . . electrically.

The following pages describe the wonders of the Medallion home, dramatize the benefits of all-electric living, and display many of the products which make it all possible.





Electric Heating at its best calls for full thickness Fiberglas Insulation!

To fully enjoy all the comforts and conveniences of electric heating at minimum cost, authorities agree that you must have full insulation. That means Owens-Corning Fiberglas* Insulation, full-thickness—as illustrated above.

1. Wall spaces filled with Fiberglas Insulation.
2. Six-inch insulation between attic floor and ceiling below.
3. Two-inch insulation under floors.

Total Electric Living is at its best with Fiberglas-Insulated Appliances

4. Dishwashers: Fiberglas Insulation minimizes noise . . . helps keep water temperatures uniform each time machine is used.

It pays to make sure your new appliances have Fiberglas Insulation! Owens-Corning Fiberglas Corp., Dept. 10S-14, Toledo 1, Ohio

5. Ranges: Your oven stays hotter—kitchen cooler—with Fiberglas Insulation in your range. Your food cooks faster . . . at less cost.

6. Refrigerators: Be sure of cold, fresh foods! With Fiberglas Insulation your refrigerator keeps things at their flavorful best. You avoid waste—and enjoy better meals.

7. Heating-Cooling Units: With Fiberglas Duct Insulation, warm air stays warm—cool air keeps cool—as it travels to every part of your house!

8. Water Heater: Inside, the water stays *hot* longer—outside, the heater walls stay cooler . . . if your heater has Fiberglas Insulation!

9. Washer-Dryers: Quiet is yours . . . with Fiberglas Insulation in your machine! Keeps outside surfaces cooler, too.



Look for this sign when you shop for a new home



* T-M. (Reg. U.S. Pat. Off.) O-C-F. Corp.

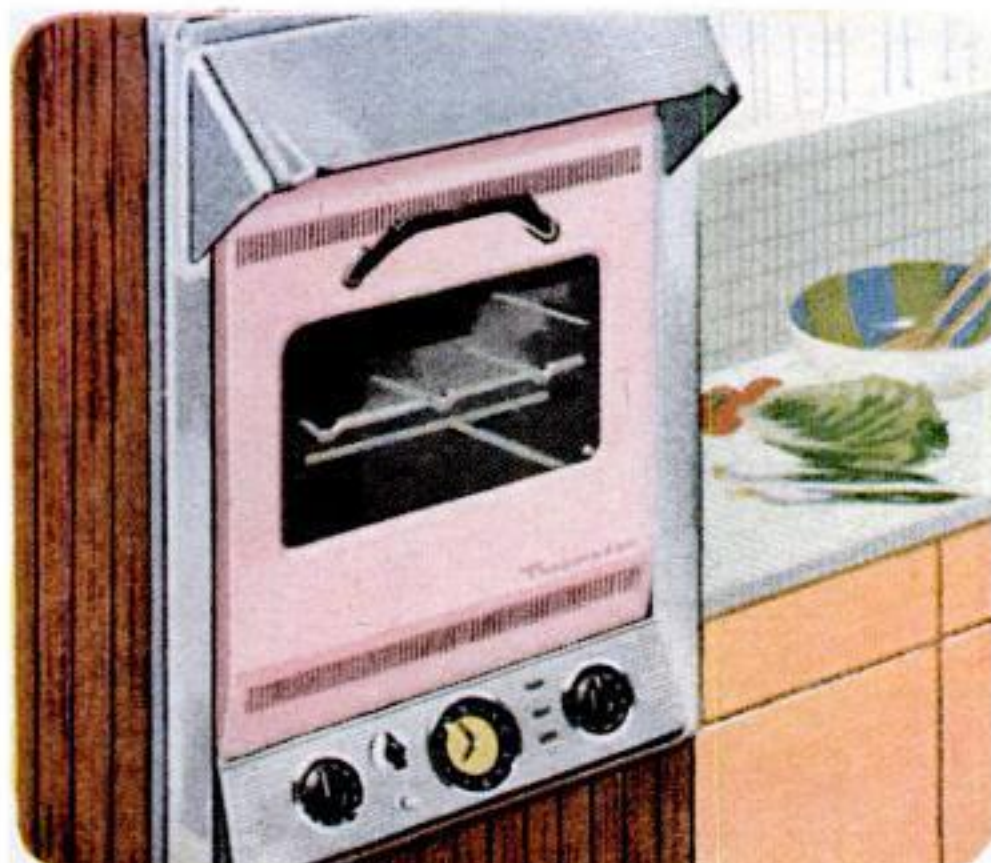


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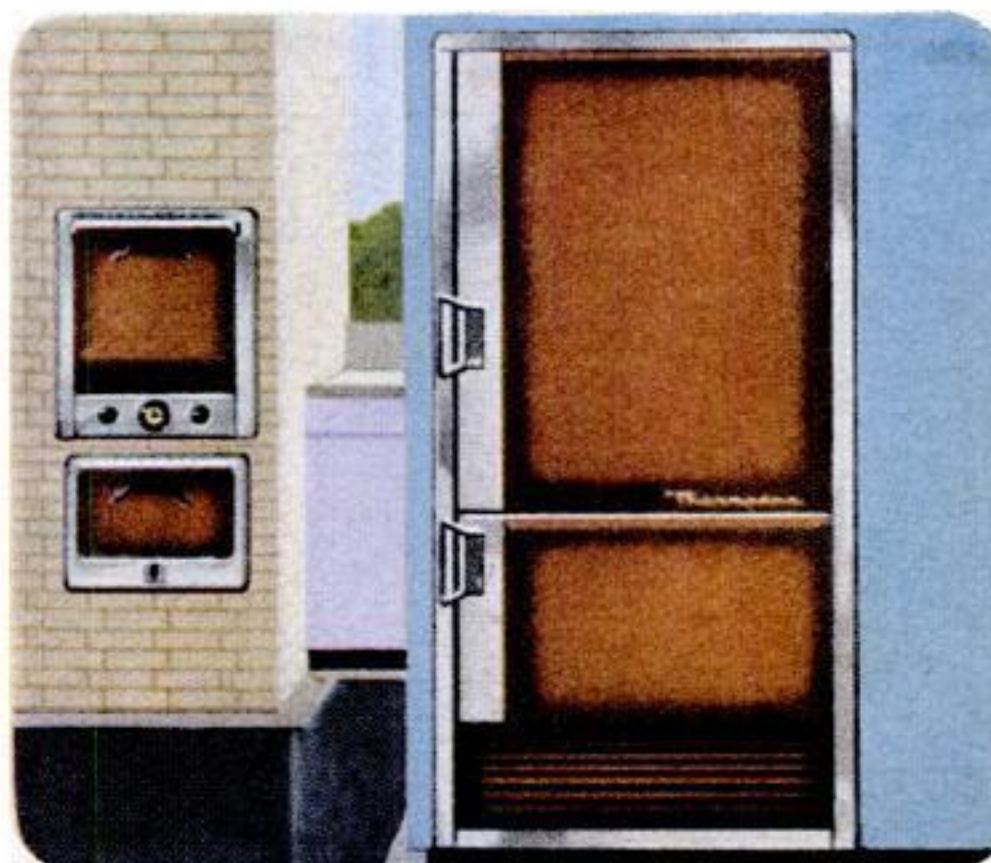
*pardon us
but...
we started
it all*



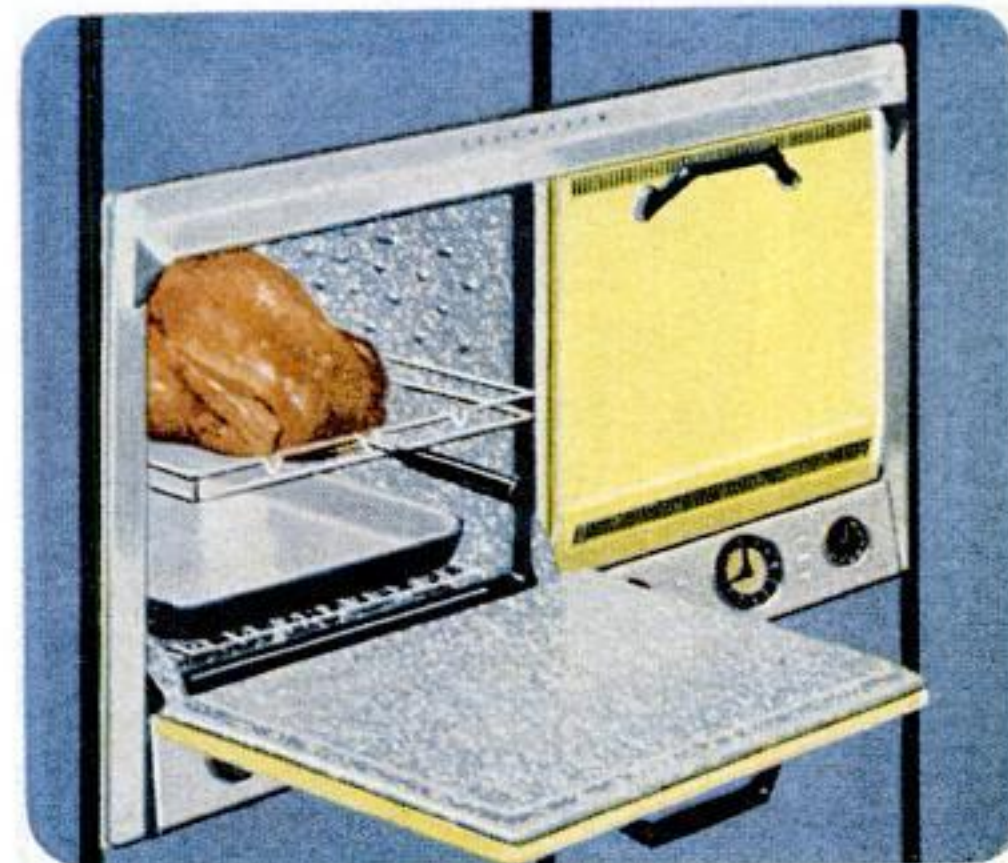
Thermador Bilt-in cooking top with 4 fast-heating elements and giant aluminum griddle. Other models with 2 to 6 elements, in stainless steel or 5 colors.* Also shown, famous "Masterpiece" single oven... over 6500 cu. in. inside.



Thermador's newest "Masterpiece" Bilt-in electric single oven with its own integral ventilating hood. Available with exclusive air-cooled door or window-in-door...3-spit rotisserie, smokeless broiling.



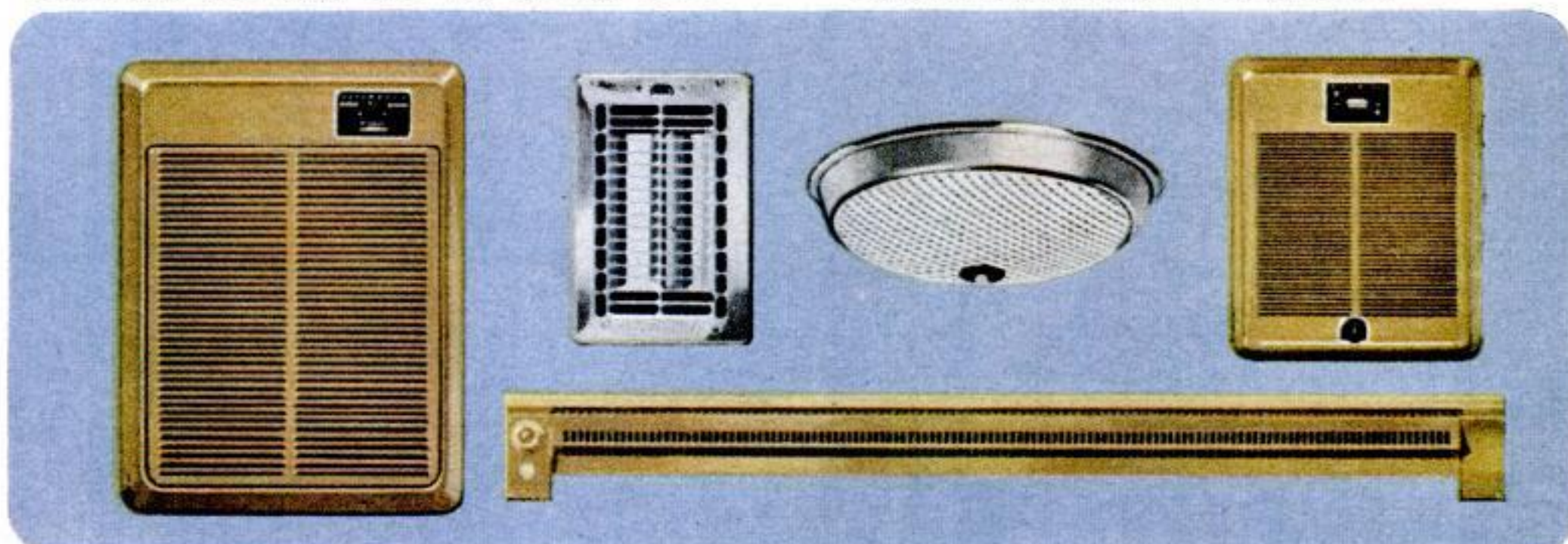
Thermador "Masterpiece" truly Bilt-in refrigerator freezer. 14.2 cu. ft. (10.2 cu. ft. automatic defrost refrigerator, separate 4.0 cu. ft. freezer below). Easiest to keep clean. Left, single oven and warming drawer.



Thermador "Masterpiece" Bilt-in electric double oven... 2 full-sized automatic ovens...2-speed, 3-spit rotisserie in left oven...for large family meals or royal entertaining. Finest in the field, all deluxe.



Thermador "Masterpiece" Bilt-in electric bi-level oven... broil or bake in either oven. Air-cooled or window door. Two-speed, three-spit rotisserie.



Five of the Thermador full line of Bilt-in electric heaters for every room in the home. Radiant models for bath and nursery, fan-type in all sizes for larger rooms. Baseboard and ceiling models, too. Also full line of portable heaters. Thermador also was originator of the fan-type electric heater...first and still the finest.



THERMADOR

ORIGINATOR OF THE BILT-IN RANGE

THERMADOR was the originator of the Bilt-in range. We have more experience in building this kind of electrical appliance than any other company in the world. This experience gives you, the customer, THERMADOR Bilt-in appliances of distinctive beauty refined from countless designs, and unequalled dependability because of our uncompromising standards of quality. Ask your architect or builder about THERMADOR Bilt-in electrical appliances, when you build or remodel.

*Thermador Bilt-in appliances available in Lifetime Stainless Steel or in Desert Pink, Daffodil Yellow, Turquoise, Canyon Copper or Sugar White



THERMADOR ELECTRICAL MFG. CO., Dept. 165
Division of NORRIS-THERMADOR CORPORATION
5119 District Boulevard • Los Angeles 22, California

Enclosed is _____ for _____ copies of "Kitchen Planning" Book at 50c each...floor plans and ideas for your new or remodeled kitchen...in beautiful full-color.

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

This offer void in States and municipalities where such offers are restricted.

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Make your house a Medallion home and live better electrically





8:15 House full of electrical wonder awaited the Bob Campbells in Medallion home on moving day (top). Kitchen got immediate inspection. Bob's mother, visiting from nearby town, had planned to assist in the moving,

said, "A wall oven! Why everything's built in—nothing to move but the dishes." Admiring range are Mickey, daughters Christy and 3-year-old Karen. Bob and 1-year-old Greg inspect built-in dishwasher. Teen-ager Bill checks refrigerator.

GOOD MOVE Camera catches Campbell family in their first day of all-electric living



10:00 Coffee and muffins for movers. "I can bake without bending," said Mickey. Insulated on six sides, oven keeps heat in, kitchen cooler.

The first day in a Medallion home brings the unmatched thrill of discovering all-electric living. It happened to the West Coast Bob Campbells recently. In the sea of packing crates they found the center of Medallion living—their new all-electric kitchen area. The built-in appliances were all connected, ready to make this a "good move" for the Campbells and a giant step up in their all-electric living standard.

The Campbells will still call it "the kitchen" but, as a room, the kitchen is taking on new dimensions. It can incorporate parts of the dining and family-room areas—and vice versa. Since electric cooking is clean, cool, fumeless, and flameless, the kitchen area no longer has to be closed off. Walls can go, and banks of high-style appliances in "L"s, "U"s or "islands" can divide food storage from food preparation and serving centers. Even the laundry is stylishly becoming a part of "the kitchen."

Housewives, decorators and appliance manufacturers have tackled the kitchen in an artistic splurge which has made it the showcase of most Medallion homes. They've used electricity to accomplish the basic cooking-baking-storing-cleanup job quickly—and safely automatic. Now the area can be kept on display and used as a family living center.



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You'll feel like a Queen in your kitchen surrounded by **FRIGIDAIRE** appliance magic



Cooking without slaving! Your choice of Fold-Back Surface Units in Satin Chrome (shown at left) to provide extra counter space, or Built-in Cooking Tops (above), color-matched to all Frigidaire Appliances. Heat-Minder, Speed-Heat or Standard Radiantube Units available for either style.



Your kitchen is *your* castle when you or your builder choose the thrifty luxury of Frigidaire *advanced* appliances—for your present kitchen or your brand new home. They're styled the way you'd expect Frigidaire and General Motors to style them—award-winning Sheer Look modular design to "build into" any standard wood or steel cabinets; White, Satin Chrome and 5 Kitchen Rainbow Colors* on some models. Beauty runs deep in these work-easy appliances, with features that almost magically take the effort out of every kitchen chore... make living electrically *even better!* In model homes and at your Frigidaire dealers. Frigidaire Division, General Motors Corporation, Dayton 1, Ohio.

*KITCHEN RAINBOW COLORS: Sunny Yellow, Mayfair Pink, Turquoise, Charcoal Gray, Aztec Copper.

advanced appliances designed with you in mind



FRIGIDAIRE

BUILT AND BACKED BY GENERAL MOTORS



Cleaning without stretching!

Famous Frigidaire Drop-Leaf Doors lower straight down at your command. You step up close to clean. And imagine baking and broiling in these beauties. Also single oven and French Door models. Kitchen Rainbow Colors and Satin Chrome.



Dishwashing without drudgery!

Frigidaire Dishwashers sparkle-clean 12 full place settings†, plus 15 additional pieces. Dishes, utensils and silverware come clean, dry and sanitized at pasteurization temperatures—automatically. Models available in Kitchen Rainbow Colors, Satin Chrome or White.

†NEMA Standards

Laundering without laboring!

This Frigidaire Laundry pair offers a better way to wash. Frigidaire Custom Imperial Washers—with patented 3-ring agitator—bathe deep dirt out, without beating. Lint goes down the drain. You just "dial" the fabric to be washed. Matching Frigidaire Fabric-Master Dryers let you "dial" the wrinkles out of Wash & Wear fabrics without ironing. Automatic Sprinkler cycle also available. Kitchen Rainbow Colors in some models, or White.



Food-keeping without frosting!

The marvelous new Frigidaire Frost-Proof Refrigerator-Freezer. No frost forms—ever—in freezer or refrigerator sections. Automatic Ice Ejector. Sheer Look design. White, and Kitchen Rainbow Colors in some models.

Now—no frost forms in the new Frigidaire Frost-Proof Food Freezers either. Famous Frigidaire Meter-Miser Compressor.

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12:00 Lunch in a matter of minutes: Campbell children fix hamburgers. Anxious to try new range, Mickey helps. "I can dial the exact heat," she exclaimed.



1:30 Clean-up is easy and sanitary: Christy scrapes garbage into disposer unit. Bill stacks plates in dishwasher. Electricity finished the job in just 10 minutes.



2:30 Spacious refrigerator is built in for convenience, attractiveness.



3:15 Water heater can stay in closet because it is flameless, flueless.



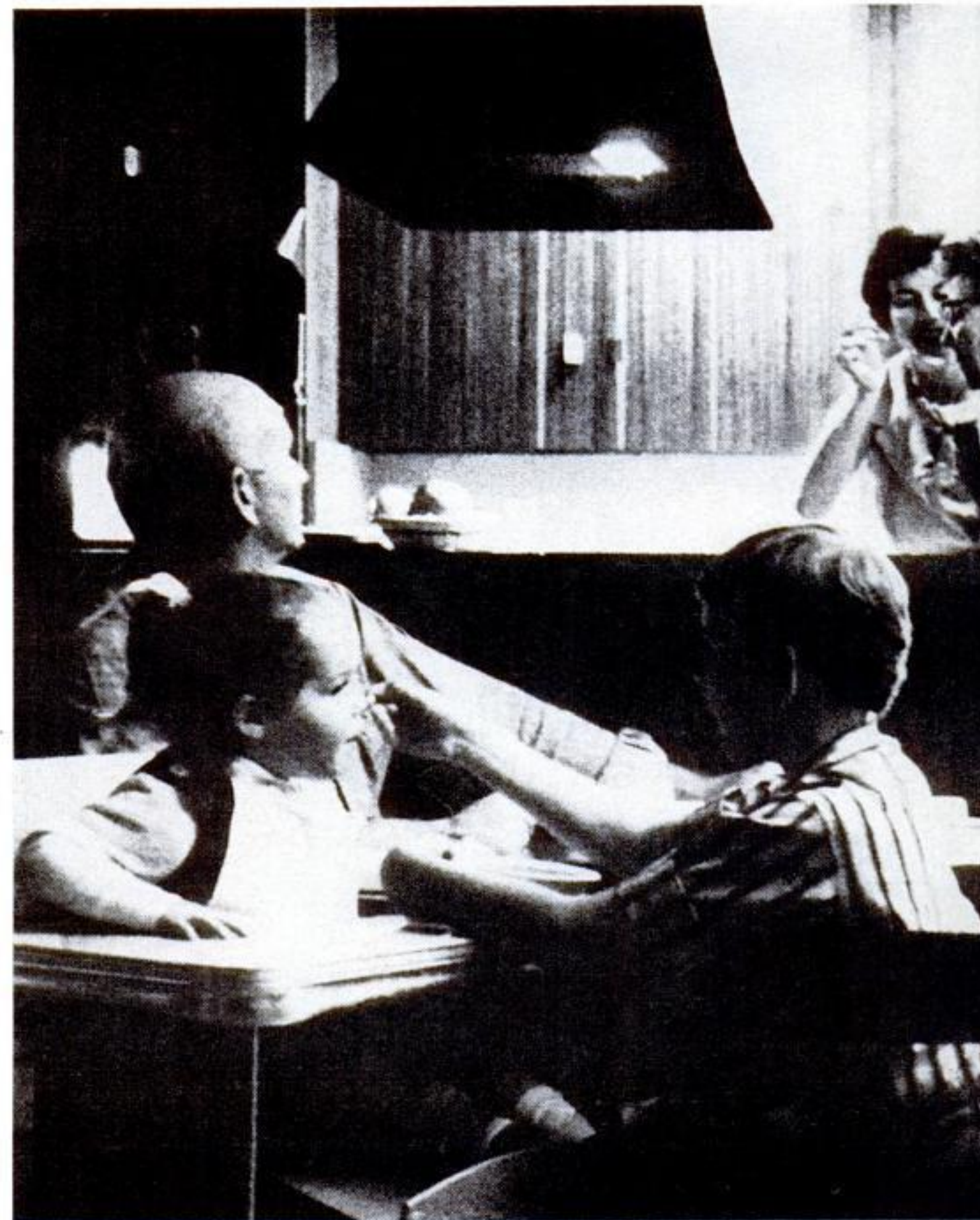
4:00 Diapers and baby clothes need washing even on moving day.



5:00 Electric dryer saves lugging three tons of laundry each year.



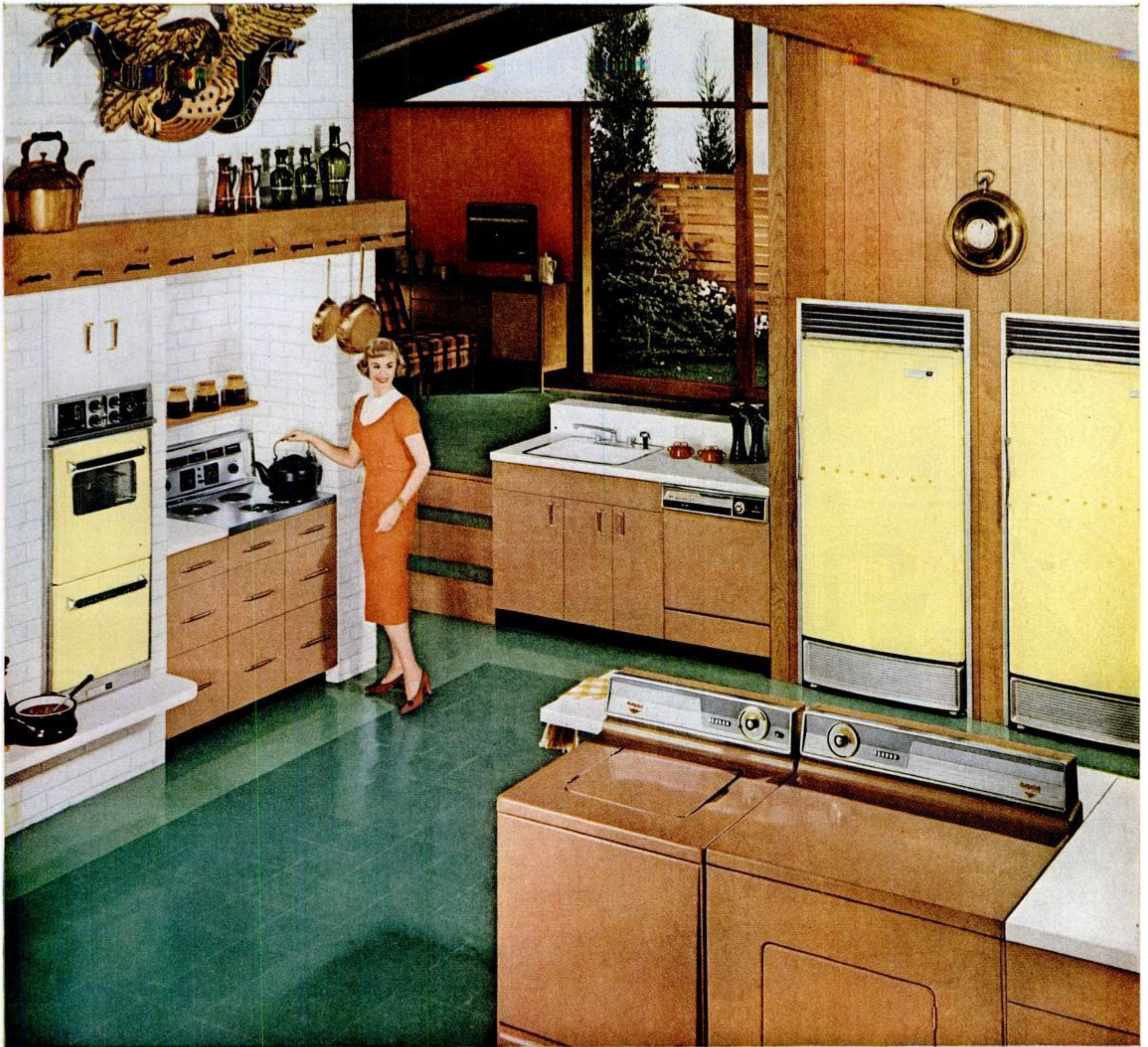
6:30 Freezer makes dinner elegant with variety of "planned-overs" (doughnuts were baked three weeks before). Freezer cookery puts Mickey on 5-day week.



8:15 End of first day of Medallion home living. Electric kitchen makes it a "good move." Built-in appliances bring big advance in all-electric living standard.



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Hotpoint

"ALL-ELECTRIC" CONVENIENCE FOR YOUR KITCHEN AND LAUNDRY

Whether you're planning a complete all-electric kitchen and laundry or simply replacing a single appliance, Hotpoint offers you the utmost in quality and in automatic convenience.

Never were home appliances so easy to use—or so beautiful to look at and so

thrifty to own. You have your choice of free-standing or built-in models—in a selection of four lovely Colortones as well as classic white.

Visit your Hotpoint Dealer soon—and see what he has in store for you!



LOOK FOR THAT HOTPOINT DIFFERENCE!
Hotpoint (A Division of General Electric Company), Chicago 44

Refrigerators
Electric Ranges
Food Freezers
Dishwashers
Automatic Washers
Customline® "Built-Ins"
Electric Dryers
Disposals®
Air-Conditioners
Water-Heaters
Electric Heating

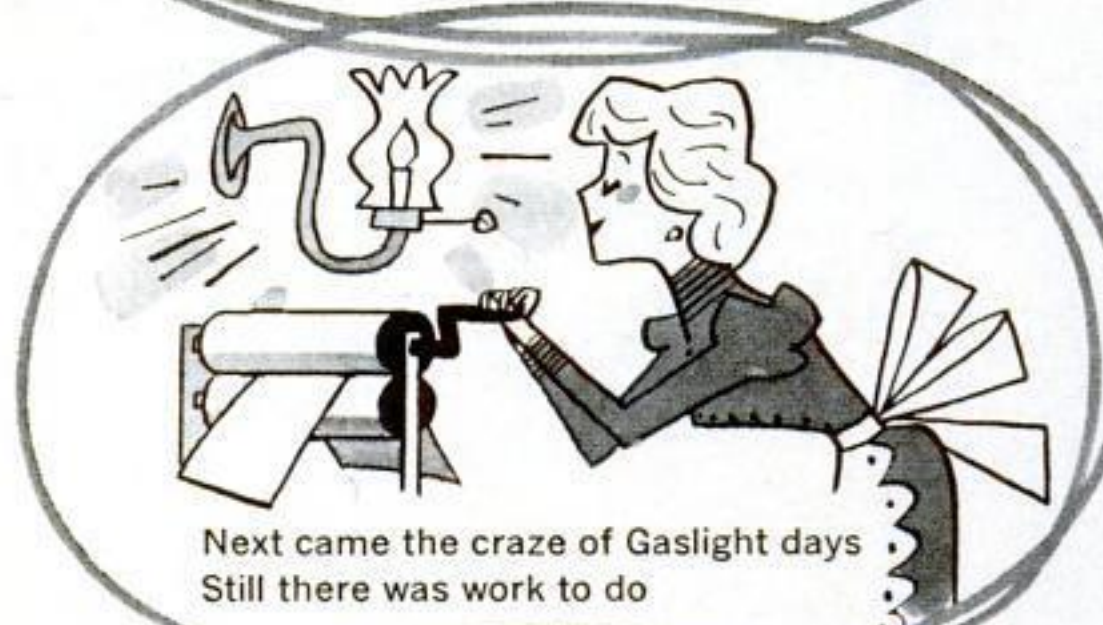
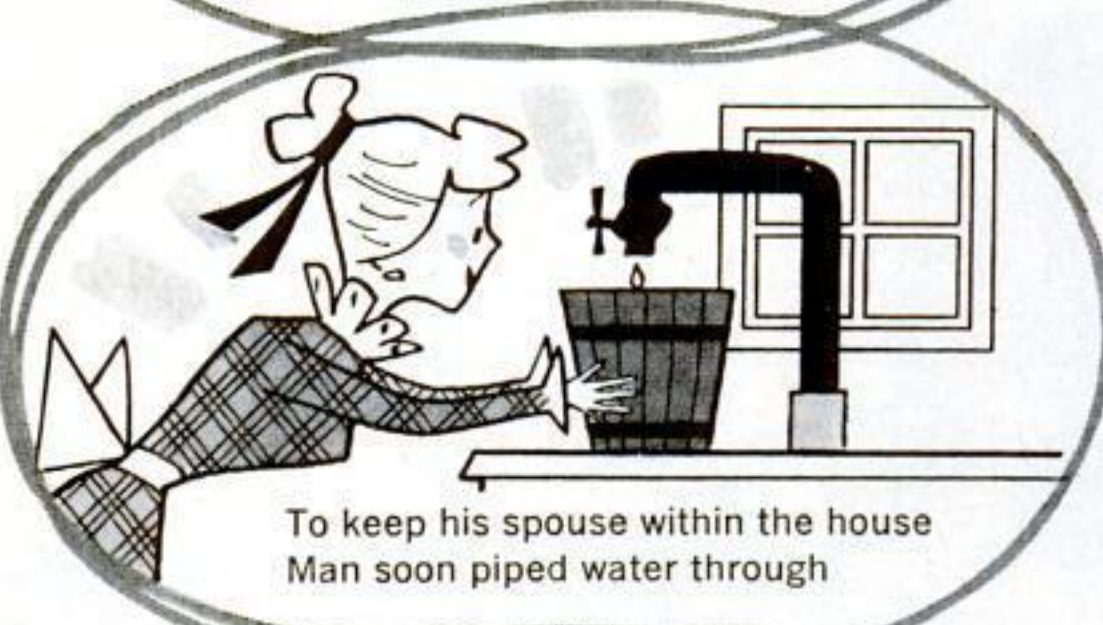


Hotpoint also is the leading manufacturer of a complete line of Electric Heavy-Duty Cooking Equipment. For example, the N. S. Savannah, America's first nuclear-powered passenger-cargo vessel, is equipped with Hotpoint Marine Galleys. You'll also find Hotpoint equipment in hotels, restaurants, schools and many other commercial cooking operations...further examples of the nationwide acceptance of Hotpoint quality products.

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"Laundry better today..."

Remember when you used to dread wash-day? Maybe you still do—if your laundry is not all-electric. The modern, automatic way to wash, dry, and iron is easy—it's *all-electric*!

Laundry everything safely — electrically

Daintiest lingerie, heavy jeans, man-made

fabrics, blankets, linens—all wash quickly, dry gently without fading, and iron to perfection the modern all-electric way.

It's cleaner — it's cooler — it's modern

In the laundry—and all through the house—your trusty electric servants do their job



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the all-electric way"

quietly, efficiently, economically. Your home stays clean and comfortable. There is only one way to enjoy *modern* living—it's the all-electric way. And electricity is the biggest bargain in your budget!

Today, appliance dealers offer more values than ever to help you live better...electrically.

Buy now at your appliance dealer's

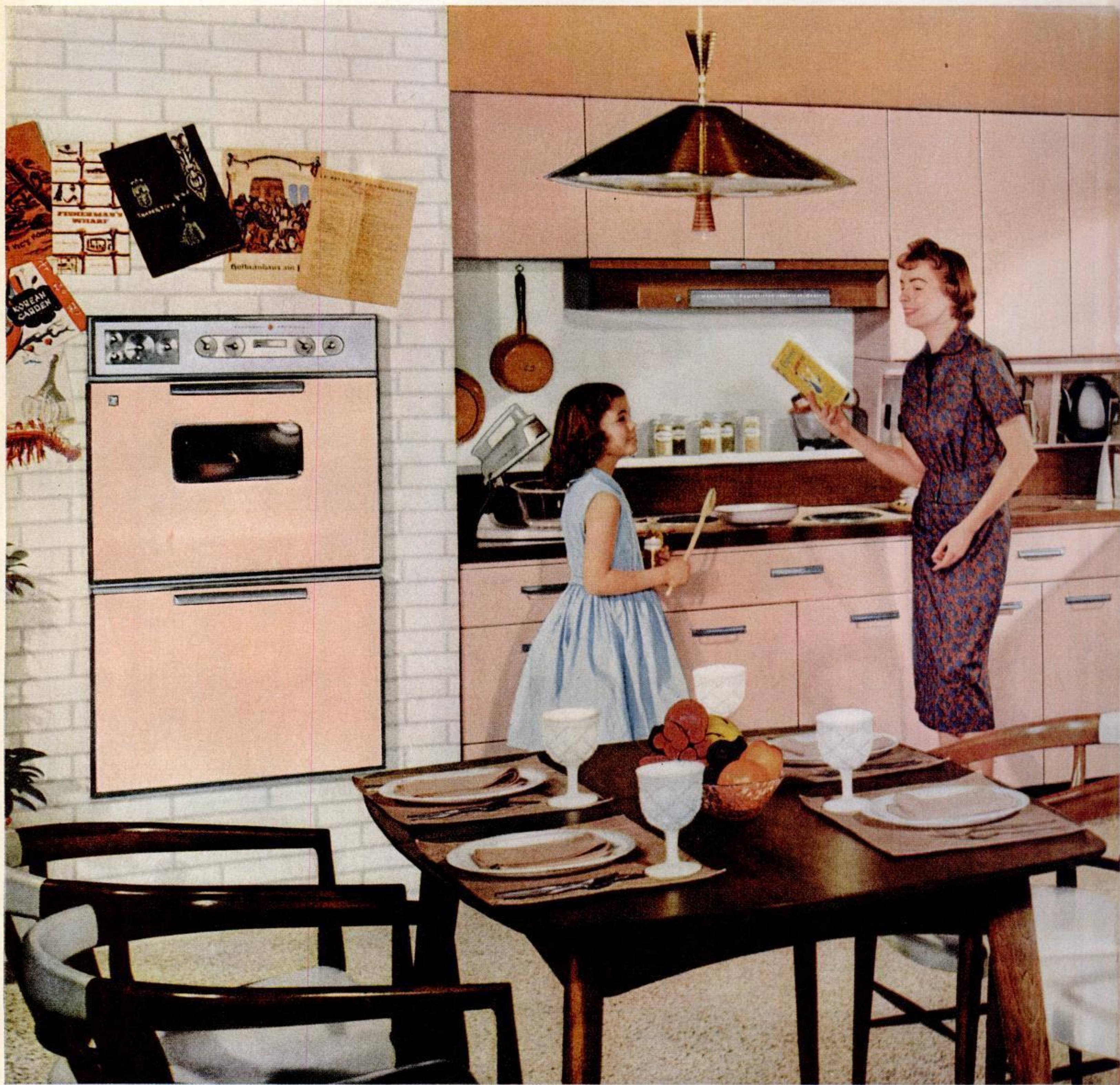
ALL-ELECTRIC LAUNDRY FESTIVAL



*Building, buying, modernizing?
Qualify your home for this
symbol of modern living with
Electric Appliances, Light for Living,
and full HOUSEPOWER.*

LIVE BETTER ELECTRICALLY

sponsored by Edison Electric Institute



Now the luxury of a General Electric

You can own a General Electric Kitchen for as little as \$29⁰⁰ a month!*

You can own all the wonderful new work-saving appliances you want for less per month than typical car payments!

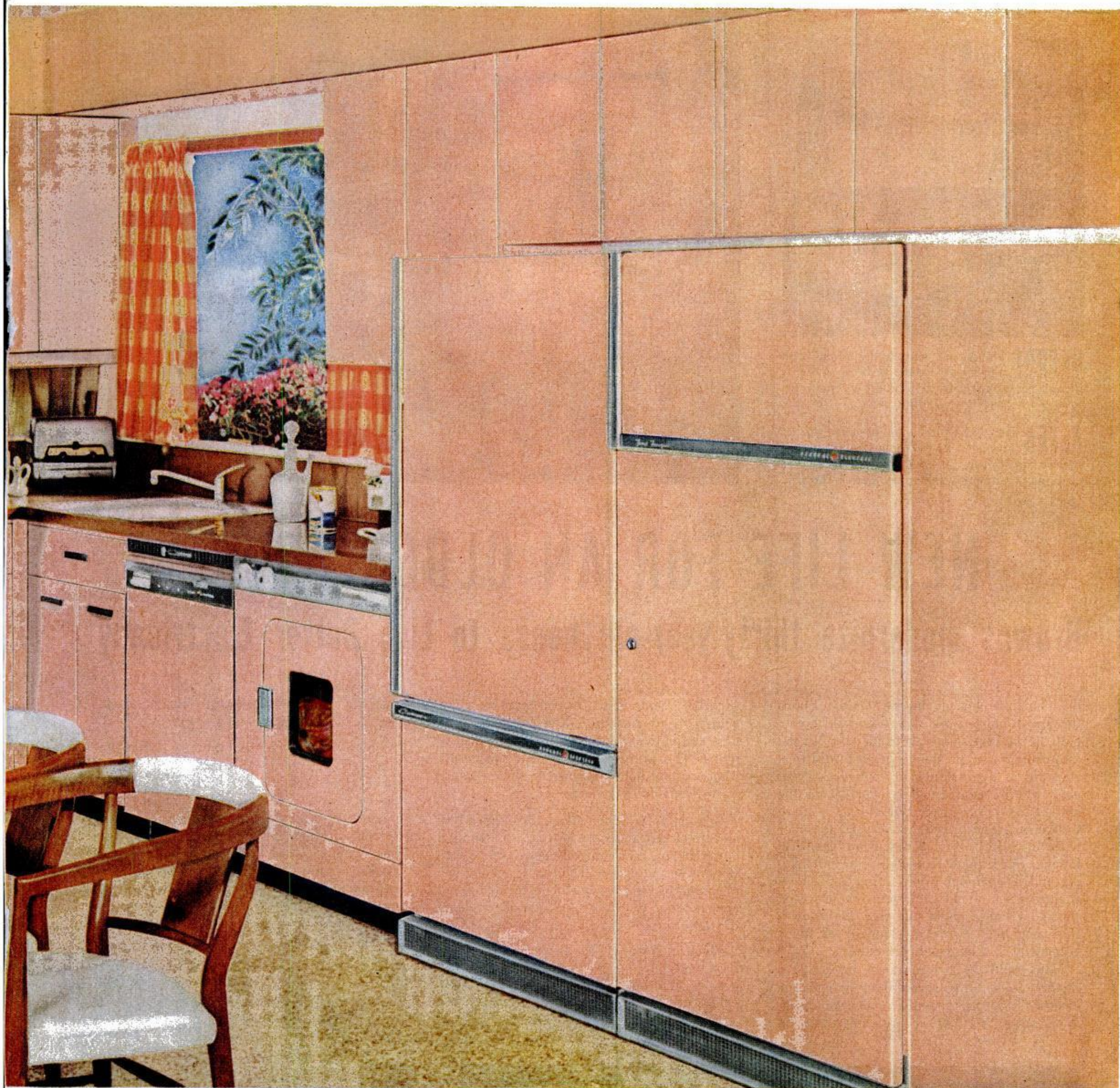
General Electric "Straight-Line" Design custom styling is not merely beautiful—it is planned to conserve your time, your effort; to let you be a lady of leisure in the kitchen. Silent elec-

trical servants make your life in the kitchen easier, faster, more convenient. Pretty enough to entertain in, the General Electric Kitchen shown boasts color-coordinated, built-in appliances.

Ask your General Electric dealer about his Planning Service. General Electric Company, Appliance Park, Louisville 1, Ky.



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Kitchen— at a price to suit your budget

*Dream Kitchen
illustrated above
approx. \$69.00 a month.
See your
General Electric
dealer for his
exact prices and terms.



Progress Is Our Most Important Product

GENERAL  **ELECTRIC**

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BEFORE House was structurally sound with the floor space the Browns wanted. It needed complete electrical face lifting, however, to take advantage of modern appliances available.

AFTER New Light for Living streams from rejuvenated house (note illumination on porch step). Browns analyzed needs and did basic planning. Contractor and utility carried through.



NEW LIFE FOR AN OLDER HOME

Browns modernize thirty-year-old house to Live Better Electrically

Like half the houses in the United States the Brown house is old. It is a fine old home, built to the best standards in its day. But the astonishing rise in this country's electrical standard of living (only 19 appliances available in 1931 contrasted to over 70 on the market today) had made this old place "hard to live in." The Brown house used to suffer from a variety of maladies from electrical fatigue—inadequate wiring—to improper lighting and not enough work-saving appliances. Erected when all-electric living was a dream, this older house could not give the Browns the same high electrical standard of living that many of their neighbors enjoy.

How could the Browns keep abreast of a rapidly accelerating standard of living? The electrical industry's answer—modernization. Working with their utility modernization

expert (in some instances the local electrical contractor or appliance dealer), the Browns have begun to enjoy the benefits of all-electric living. The utility recommended specifically what could be done to bring the Brown house up to Medallion standards.

Generally, Medallion standards require 100-ampere electrical service entrance . . . enough power to run the required electric range plus three other automatic labor savers. This type of wiring leaves the door open for additional appliances as the house's electrical standards continue to rise.

Electric heating, be it baseboard, overhead resistance or the new heat pump, can provide the modernized home with clean, efficient heat that will far outperform the antiquated unit it replaces. In the Browns'

case, they selected baseboard resistance heating for clean comfort and convenience.

Light for Living is another Medallion standard that is included in the Browns' modernized home. Light for Living brings out the beauty of the home, beauty that has been minimized through poor lighting, but now revealed through planned, decorative illumination. Work areas such as the laundry and kitchen in the older house were almost universally poorly illuminated. The Browns' modernized kitchen and laundry, and all the other task areas, are properly illuminated with Light for Living.

Age is no longer a barrier to all-electric living. The Browns have modernized to Medallion standards and lifted their older home to a new high in electrical living.



BEFORE Poorly organized with few electrical servants, kitchen added steps and work for Mrs. Brown. Poor lighting made it unpleasant place.



AFTER "Cooking is cleaner and cooler now," says Mrs. Brown, "and I feel so modern." Electric kitchen is showcase of the house.



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Better Living for Every Home...old or new!

FOODARAMA LIVING

by Kelvinator



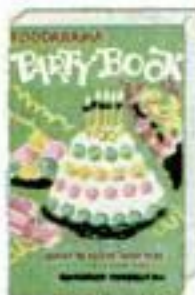
The Raleighs: "WE EAT BETTER!" More exciting, healthier meals are easier to plan and prepare with Foodarama's tantalizing variety of foods within easy reach. The refrigerator side is *100% usable* for fresh foods . . . the *upright freezer* is 207 pounds big. Arrangement is *so* convenient, with most-needed foods where they're most accessible. There's no stooping to use the waist-level Cold-Mist Freshener. New Package Pantry stores ready-wrapped fruits and vegetables right in their plastic "crisper" bags.



The Andersons: "WE SAVE TIME AND MONEY, TOO!" You shop less frequently, "run out" of things less often! And Foodarama's huge 18 cu. ft. capacity—6-cu.-ft. upright freezer and 12-cu.-ft. refrigerator—lets you fix so many things in advance . . . a whole, cooked roast if you like. You save big money, too! Foodarama lets you buy in quantity when prices are lowest. It costs much less to buy than a separate freezer and refrigerator . . . operates from a single, economical unit.



The Thompsons: "WE HAVE MORE FUN!" Teen-age or adult party, entertaining is always more gracious and easy-going. You're really free for fun and hospitality.



P.S. Just as you won't run out of frosty cold beverages and foods for any festivity with Foodarama . . . you won't run out of ideas for having more fun with the new "Foodarama Party Book". It's full of gay games, decorations, food for parties of all kinds. 128 pages, beautifully illustrated in color. Now on sale at bookstores at \$3.25, but only \$1.25 for a limited time only at your Kelvinator Dealer. Saves you \$2.00!



A 12 cu. ft. *deluxe* refrigerator and a 6 cu. ft. *upright freezer* in one cabinet only 41" wide, 63" high and 25" deep!

Kelvinator Appliances... Built Better to Serve Better

KELVINATOR DIVISION, AMERICAN MOTORS CORP., DETROIT 32, MICH. • Refrigerators • Ranges • Automatic Washers • Clothes Dryers • Home Freezers • Room Air Conditioners

Live Better



Electrically

Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically



Printed material



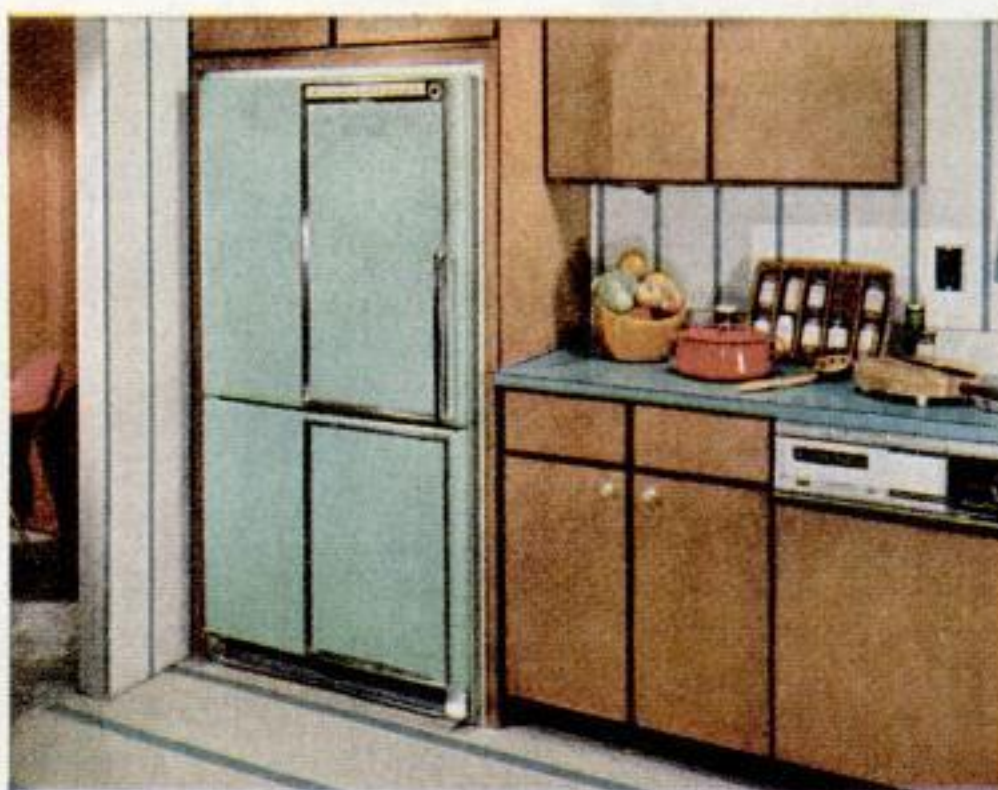
FOOD PREPARATION CENTER is chock-full of Westinghouse wonders. Shown in the Westinghouse Total Electric Home is the refrigerator of the future, the Island Refrigerator, with doors that open

front and back. Built into the handsome appliance wall are Westinghouse electronic and electric ovens. And crisp, clean Westinghouse Heirloom Maple Wood Cabinets unify the design.

WESTINGHOUSE HAS ALL THE THINGS YOU NEED FOR **TOTAL ELECTRIC LIVING**



WESTINGHOUSE 1000 LAUNDROMAT® Automatic Washer and Dryer, in wood tone and walnut, are so glamorous they move into the living areas of your home. Laundromat has automatic push-button controls for every fabric—even those things you now do by hand.



REFRIGERATOR-FREEZER IS TRIM AND TERRIFIC! Trim because it has no coils on back . . . because it needs no extra space for door swing. Concealed hinges permit opening to a full 90° within cabinet width. Terrific Cold Injector keeps meat fresh up to 7 days without freezing.



DISHWASHER GUARANTEES 140° HOT WATER. That's the temperature needed to get dishes really clean. Only this new Imperial Roll Out model provides it, regardless of tap water temperature, with its unique Hot Water Booster. Choose-N-Change front panels in eight colors.

YOU CAN BE SURE...IF IT'S Westinghouse

WATCH "WESTINGHOUSE LUCILLE BALL-DESI ARNAZ SHOWS" CBS-TV FRIDAYS

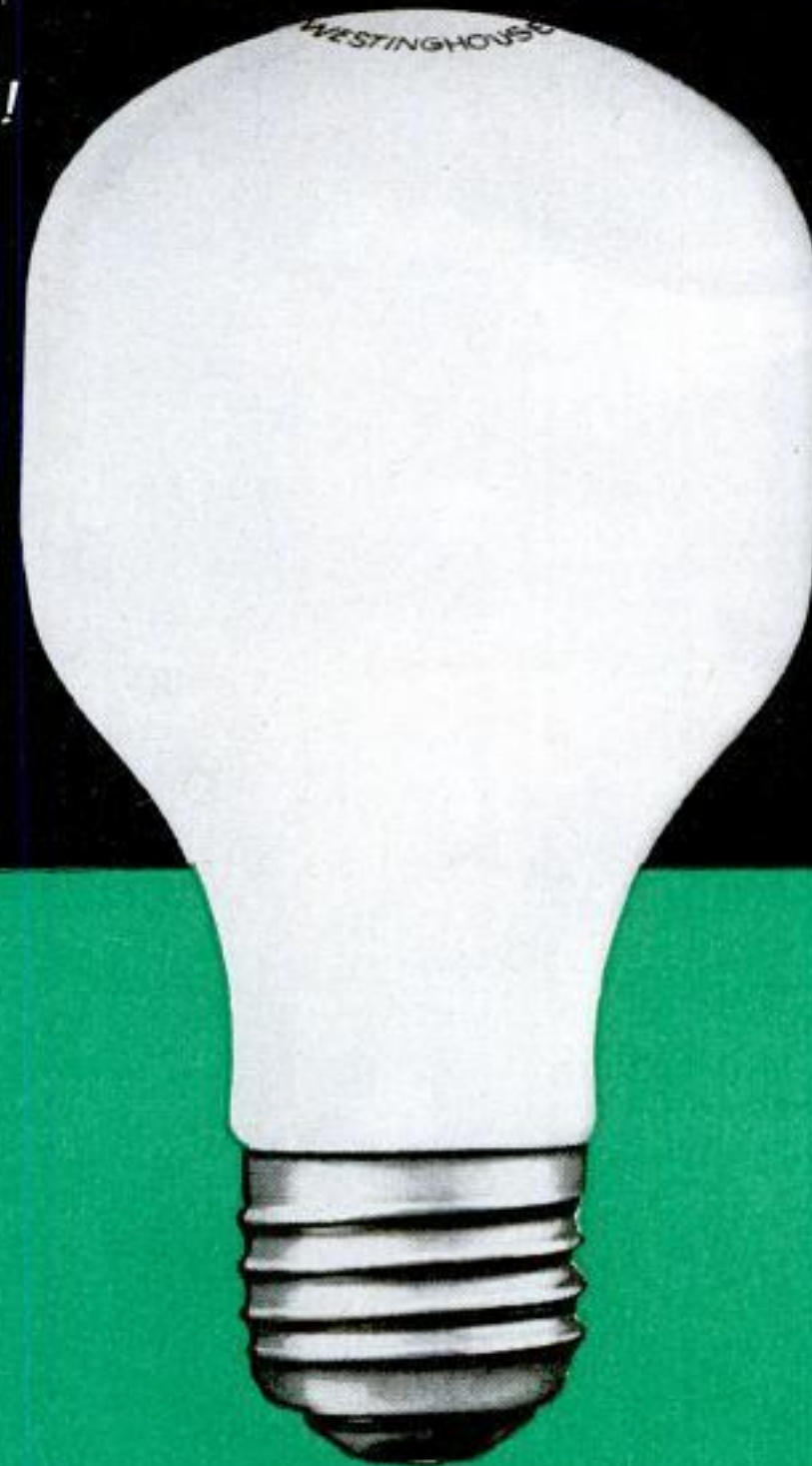


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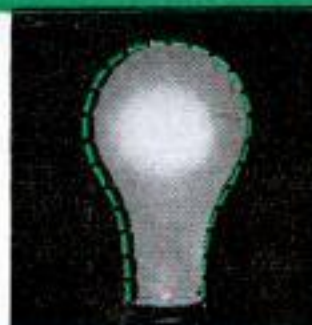
NOW...FROM WESTINGHOUSE—THE GREATEST ADVANCE IN LIGHT BULBS IN 34 YEARS!

New Shape

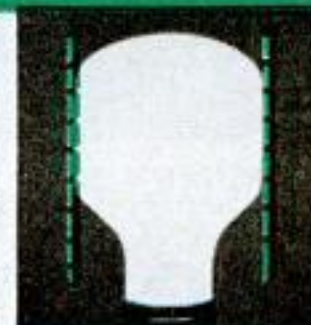
New Light



Westinghouse announces the first major advance in light bulbs since 1925. It's the all-new Westinghouse Eye Saving White bulb...the best bulb for seeing ever developed. It's so completely new it makes ordinary bulbs old-fashioned. You'll notice the difference—in the look and feel of its entirely new shape...in the new glare-free light it gives. This is light for living. Ask for it at your neighborhood store...NOW!



Ordinary bulb has burning hot spot in center that causes glare and harsh shadows.



New Eye Saving bulb gives even, all-over brightness that's much easier on your eyes.

YOU CAN BE SURE...IF IT'S
Westinghouse
WESTINGHOUSE LAMP DIVISION, BLOOMFIELD, NEW JERSEY

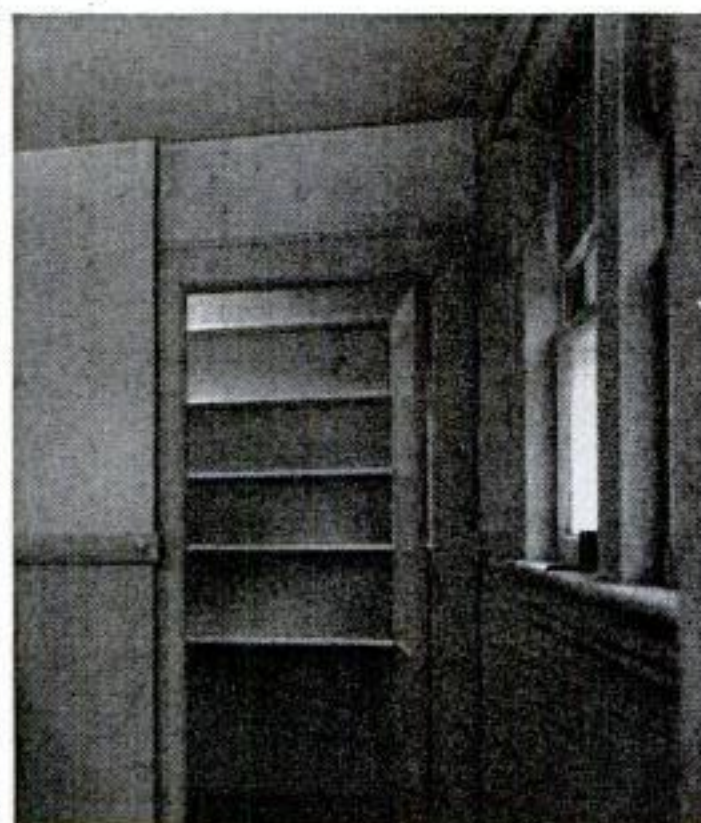
WATCH "WESTINGHOUSE
LUCILLE BALL-DESI ARNAZ SHOWS" CBS-TV FRIDAYS



BEFORE Lacking insulation, attic was problem to be licked before electric heat could be installed.



AFTER Now insulated for complete comfort conditioning, attic keeps weather outside—both hot and cold.



BEFORE Antiquated pantry area was an eyesore. Never used by the Browns, it represented wasted space.



AFTER All-electric laundry washes cleaner automatically; dries more gently than wind-whipped lines.



COMFORT AND CONVENIENCE fill the all-electric home. Lighting above drapes enhances room; portable lamps provide for versatility in lighting décor. Electric base-board resistance heat keeps house cleaner—no blasts of air to spread dust, dirt or fumes.

Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically



Copyrighted material



WORKMEN UNLOAD ADAPTOMATIC HEAT PUMPS FOR INSTALLATION AT OOT BROTHERS' 1000-HOME DEVELOPMENT IN SYRACUSE, NEW YORK

FEDDERS PUTS THE WONDERFUL HEAT PUMP IN REACH OF THE AVERAGE-INCOME FAMILY

Adaptomatic Brings Year 'Round Air Conditioning—Heating and Cooling—To Modest-Priced Homes

Thousands of Americans are today enjoying what was a high-priced luxury only a year ago—whole-house heat pump air conditioning, winter and summer.

Fedders, world's largest manufacturer of air conditioners for the home, took the luxury price-tag off heat pump air conditioning by working a minor economic miracle . . . designing a compact, one-piece unit, half the size of conventional heat pump air conditioners—and then mass producing it for additional savings.

Fedders Adaptomatic Heat Pump costs less than many summer air conditioning systems that

only cool . . . little more, in fact, than a good central heating plant. But the comfort and service this wonderful climate machine provides is beyond price—the world's safest, cleanest heating in winter and whole-house air conditioning in summer, automatically.

Families who live in Adaptomatic cooled-and-heated homes enjoy a refreshing indoor climate every day of the year. Housewives report the Adaptomatic provides extra hours of leisure, since housework is cut to a minimum all year long. In summer, with dust and dirt shut out, homes stay bright and clean longer . . . without daily

dusting. In winter, walls and furnishings don't get that tattle-tale gray pallor caused by the smoke and soot of flame-fuel systems.

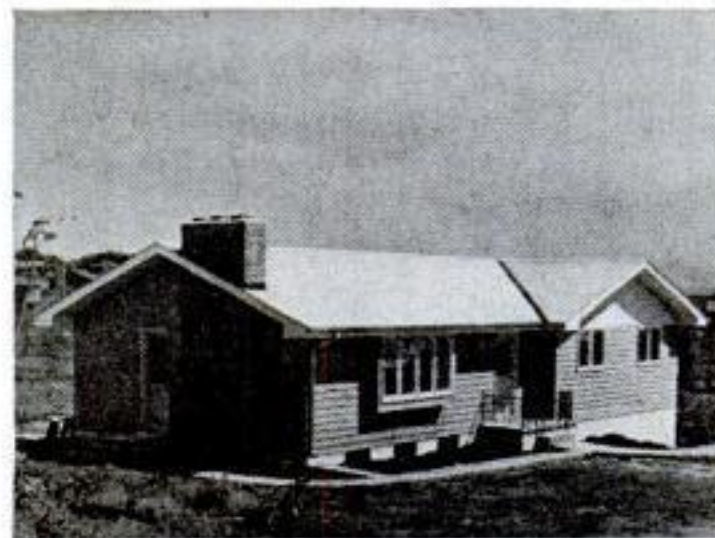
The Adaptomatic operates economically, too, since it employs heat pump action—extracts "natural heat" from outdoor air even in cold winter weather. It heats without fuel, cools without water. It gives you the complete safety and convenience of modern electric heat—yet it's the most economical form of electric heat available.

Look for the Fedders Adaptomatic in many of the attractive model homes you visit in the next few days during National Home Week. And ask your own heating or air conditioning dealer if you want to bring the air of good living—a year 'round springtime climate—to an older home. Or write Fedders Corporation, Maspeth 78, N. Y.

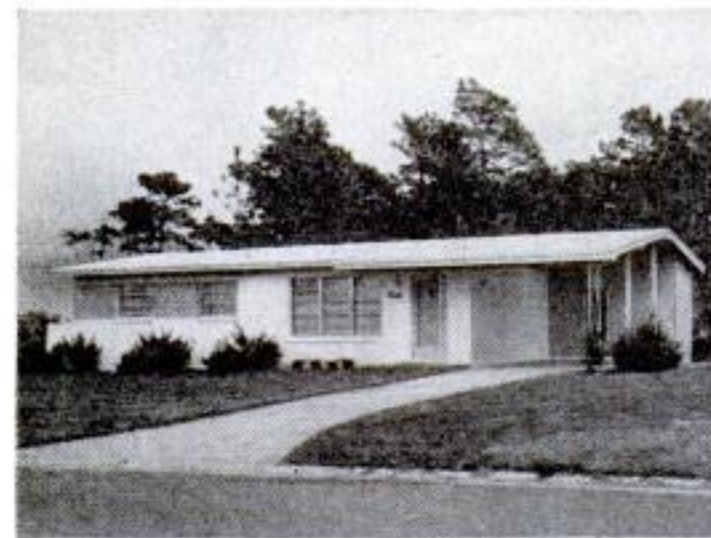
COLD CLIMATE...WARM CLIMATE...ADAPTOMATICS ARE BEING INSTALLED EVERYWHERE



\$9,995—Beaumont and Houston, Texas. The "Catalina"—3-bedroom brick home constructed by Downey Brothers, Texas' largest home builders. Adaptomatic provides year 'round cooling and heating.



\$21,500—Omaha, Nebraska. Builder Don Kroger and Frazer Heating and Air Conditioning, contractor, install Adaptomatic Heat Pumps in 6-room homes in new addition to the Keystone Choice development.



\$13,275—Jacksonville, Florida. Adaptomatics will cool and heat 3-bedroom homes in the 1400-house Normandie Village and 640-house Harbor View developments. Designed and built by Pearce-Uible Co.



\$17,750—Portland, Oregon. Model home features covered patio, 2-car and boat garage and the year 'round heating-and-cooling Adaptomatic—in the Treeland development. Dick Peters Builders, Inc.



Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically

NEW WAYS TO CONTROL CLIMATE

America discovers convenience of all-electric heating and cooling

A flick of the switch turns on the big news in home heating and cooling—electricity. The same power that cooks, cleans, and lights now brings noiseless, dustless, odorless climate control. This exciting new facet of all-electric living is capturing the imagination of homeowners all over the nation. They are amazed by its benefits, surprised at its low cost, and comforted by the knowledge that their heat supply is only as far as the nearest utility pole.

There are two basic methods of heating with electricity: direct electric heating and heat pump heating. In direct heating an electric current passes through an element—thin wire, metal coils or plates, or even glass. As the current meets resistance, it is converted into heat. Because of its simplicity, direct electric heating lends itself to various means of application, all of which provide clean, quiet, precisely controlled heat.

One of the most popular types of direct electric heating is baseboard heaters. They blend handsomely into new architectural designs and are also popular in home modernization and room additions because they require no ducts, pipes, or chimneys and are easy to install (*next page*).



CONSTANT TEMPERATURE makes plants thrive. Amazing heat pump heats *and* cools, controls humidity; it uses no water, burns no fuel. Flat grille shows; central unit is in closet.

GENTLE WARMTH FROM BASEBOARD RESISTANCE UNIT (UNDER WINDOW) IS CLEAN AS SUNSHINE. CHILDREN PLAY ON FLOOR WITH NO DRAFTS OR BLASTS OF HOT AIR



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CHROMALOX

Electric Baseboard Heating

No Drafts! No Dirt! No Furnace! No Ducts!

Save the cost of furnace, ducts, pipes, chimney—and enjoy modern, controlled comfort at its best. *Chromalox* electric baseboard units heat your whole home . . . yet you can adjust the heat separately for each room. And housework is much easier. There is no dirt or dust . . . and no fumes . . . with clean electric heat.

Chromalox Electric Baseboard Heating is economical to install and operate. Put smart-looking baseboards under windows and along cold outside walls . . . in new homes and old. They're the perfect answer for added rooms.

Automatic electric heating is so economical and safe that it's also the sole heating system for many of today's schools. And the name *Chromalox* gives you the assurance of dealing with the world's largest manufacturer of electrical heating equipment for home and industry.

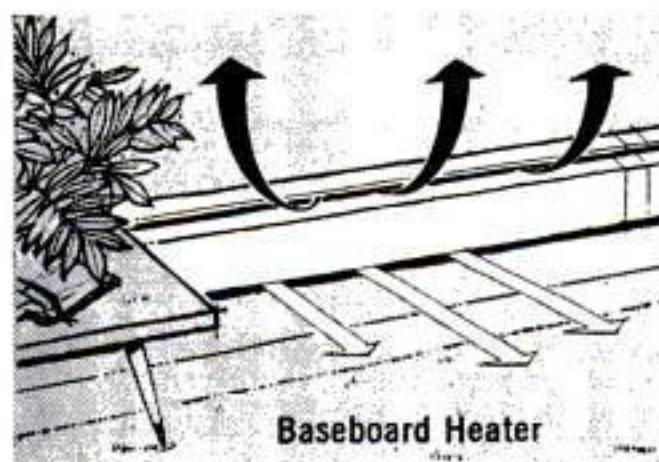
FREE BOOKLET tells all you want to know. Just tell us whether you're interested in a new home or remodeling. Write today.



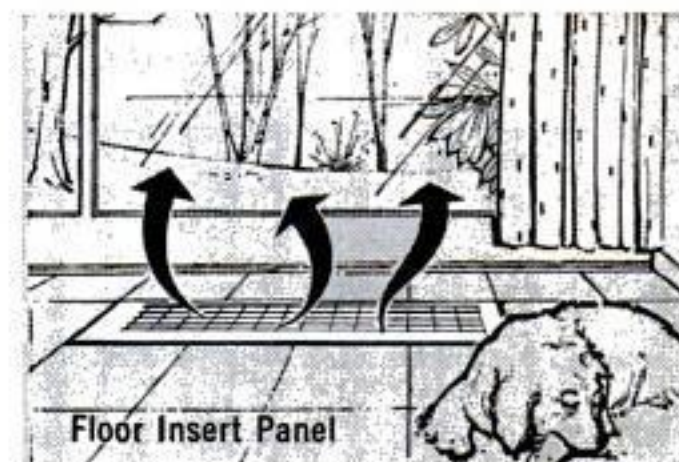
CHROMALOX
EDWIN L. WIEGAND COMPANY
7515 Thomas Boulevard • Pittsburgh 8, Pa.

ALL-ELECTRIC LIVING

ADVERTISEMENT
CONTINUED



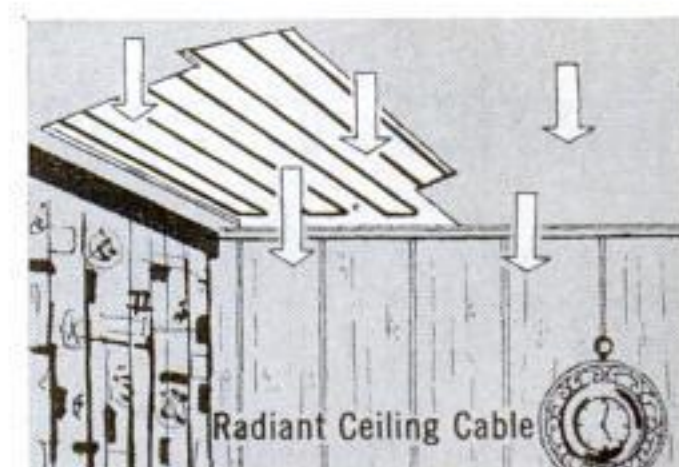
Baseboard Heater



Floor Insert Panel



Wall Insert Panel



Radiant Ceiling Cable

DIRECT ELECTRIC HEAT comes in a variety of types to match heating needs. White lines indicate the radiant heat which warms on contact, like standing in sunlight and the black lines indicate the soft, gentle air flow, or convection heat.

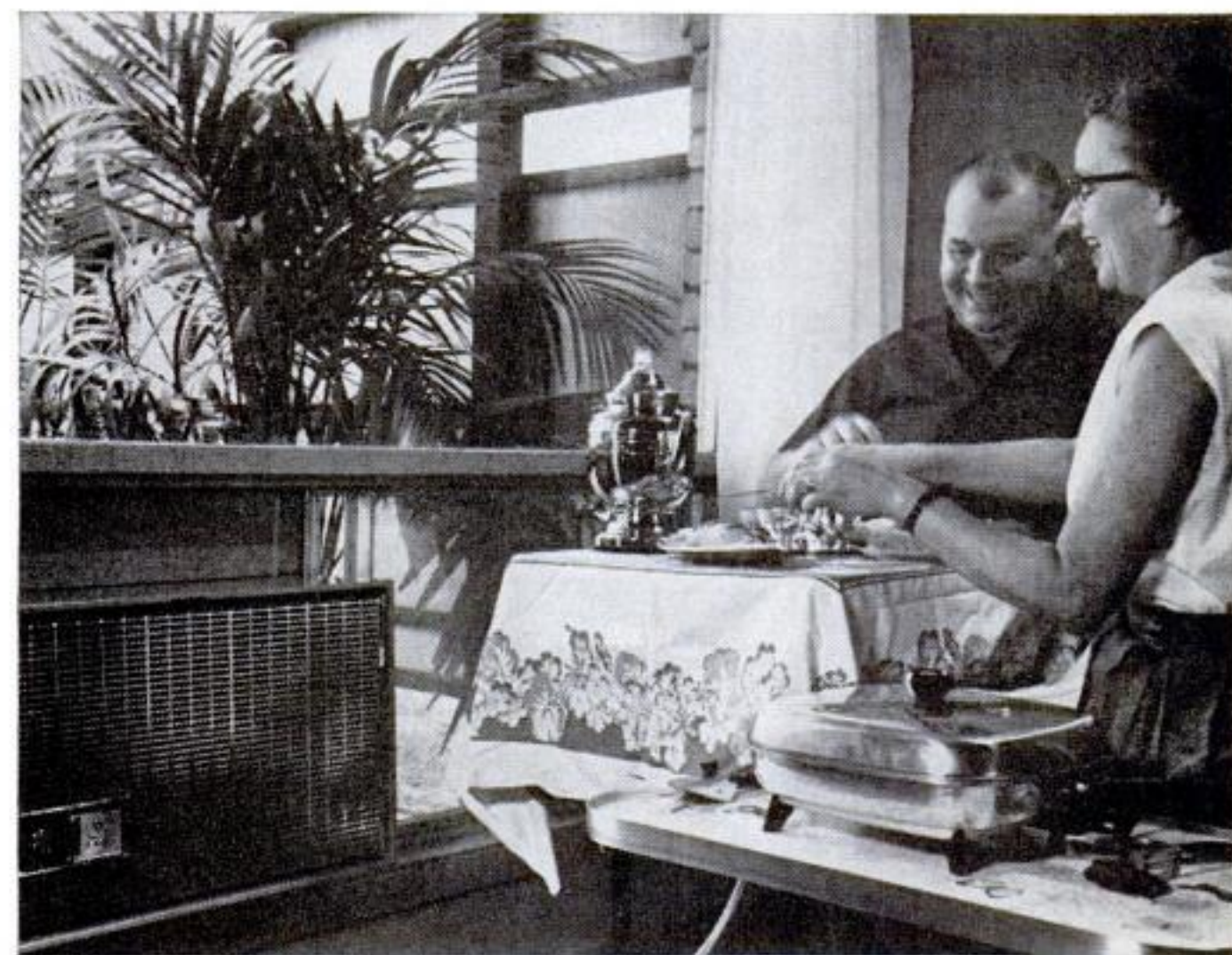
Other popular types are shown above. Thermostats in each room maintain the desired temperature, regardless of sun or wind effect on any side of the house.

In sections of the country where home cooling is as essential as heating, the all-electric heat pump offers the ultimate in year-round climate control. Basically, the heat pump operates on a well-known scientific fact: there is enough "natural" heat in outside air, even in winter, to heat every home in the world. The heat pump extracts this free-for-the-taking natural heat in winter, concentrates it and brings it indoors. In summer, it extracts the heavy, moist heat inside homes, concentrates it, and moves it outdoors. Using only electricity and air, the heat pump provides fumeless, dust-free, comfort-conditioned air.

In areas of the country where home cooling is necessary only during a few weeks of the year, a combination of room air conditioners and some form of direct heating may provide the most practical all-electric climate control. But no matter what type of electric heating or cooling equipment is used, it is essential that the house have full insulation.

Generally speaking, full insulation means six inches in the ceiling or roof, four inches in the walls, and two inches under the floor—standards of a comfort-conditioned home. Along with the insulation, electrically heated homes should have storm windows, weather stripping, and vapor barriers. This greatly reduces heat loss and thereby reduces the kilowatts needed to heat a house. Utility records prove that during the heating months many houses of 1300 sq. ft. insulated to electric heating standards are heated for as little as \$15 a month. Full insulation means you pay no premium for the benefits of electric heating. What's more, since electric heat requires no chimney, furnace, or fuel storage space, it lowers the cost of home construction.

Electric heating and cooling, long thought of as an expensive luxury, is now a practical consideration for almost anyone—even in the coldest climate—in planning to build or modernize. As more Americans discover this fact, they move up to better living with all-electric climate control.



ROOM AIR CONDITIONER brings relief from heat strain, heart strain, and hot-weather discomfort. New designs are attractive: extremely easy to install.



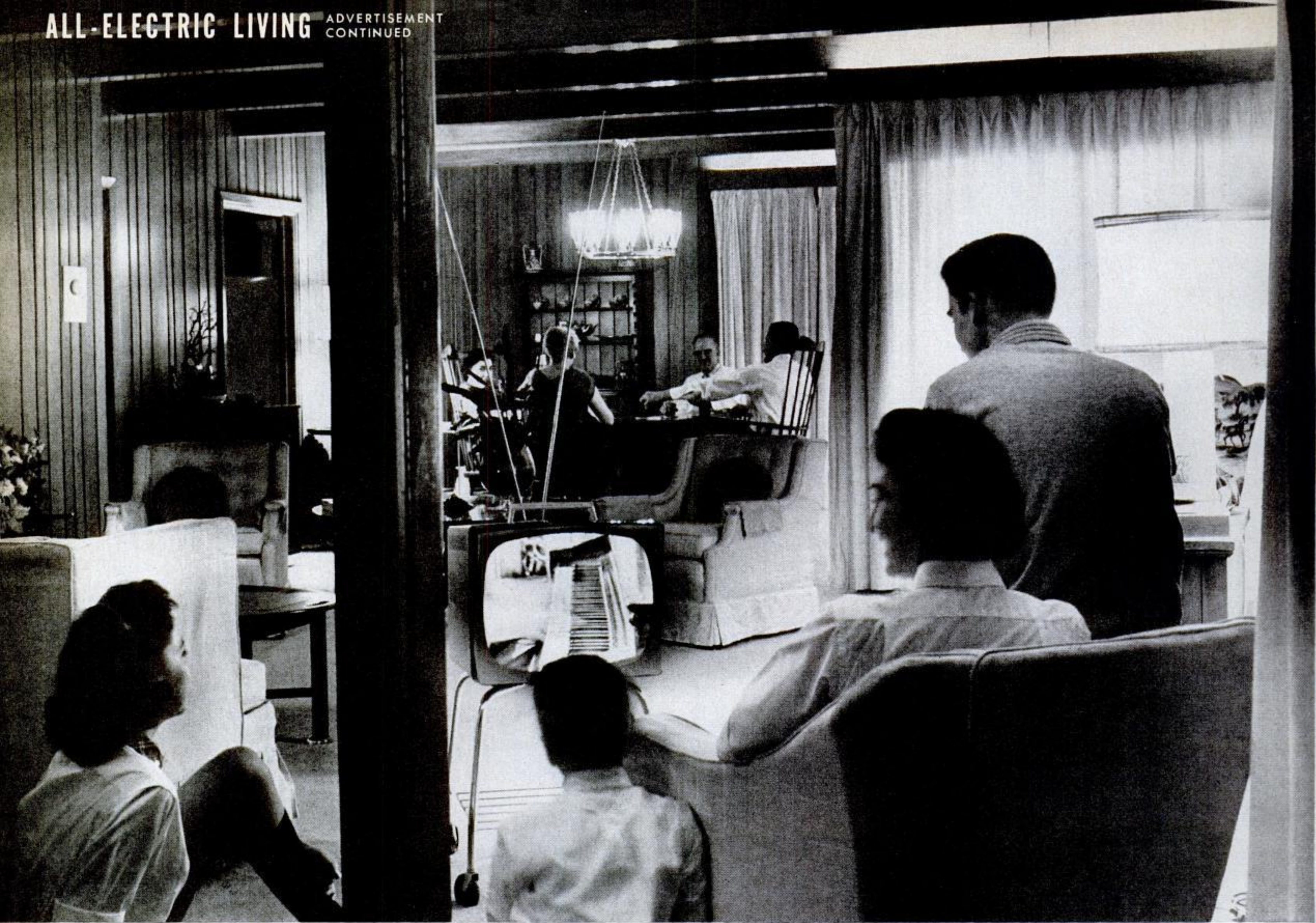
Congregational Church, Wilton, Connecticut, painted for Sylvania by Arthur Lidov

With light for worship, for work and for the home—
Sylvania lamps have given light for living to the American scene
for over half a century.



Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically

 **SYLVANIA**
Subsidiary of
GENERAL TELEPHONE & ELECTRONICS 



DRAMATIC LIGHT FOR LIVING IS "BUILT IN" TO THIS EAST COAST MEDALLION HOME TO HELP BLEND TRADITIONAL FURNISHINGS WITH CONTEMPORARY ARCHITECTURE

LIGHT FOR LIVING

New sight-saving, inexpensive elegance

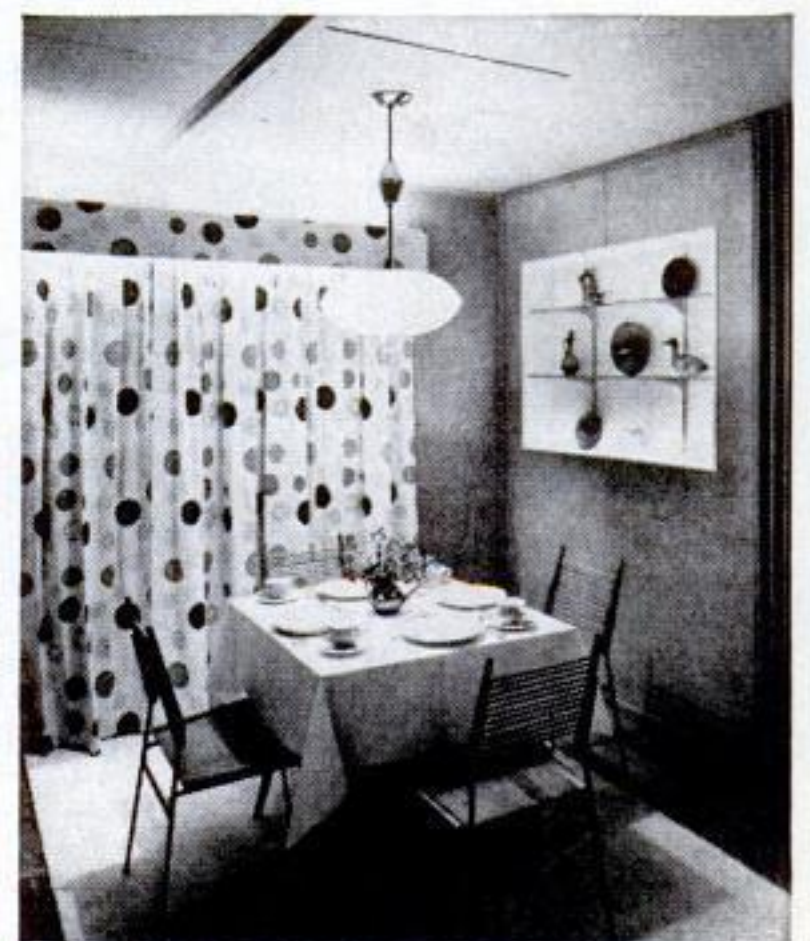
The magic ingredient in decorating today is Light. Light, from many sources and in a wide range of colors, now provides the home decorator with her most dramatic beautifying element. Light for Living makes rooms appear larger and more attractive . . . colored light makes fabrics appear richer . . . the room is held together with a common color scheme of light. Lighting can be dimmed or brightened to suit the mood or the occasion. Using light in an intriguing and simple way, a wall can be splashed with brightness from decorative and functional lighted valances. Inexpensive, simple overhead light becomes a thing of rare design and beauty when diffused through plastic or metal grids to spread wall-to-wall light across the ceiling. Task areas in a Light for Living Medallion home are attractive as well as properly lighted places to work. Well-placed counter lighting plus overheads remove annoying shadows and ease eye strain.

New Light for Living is not restricted to the interior of the house. The use of carefully placed, yet inexpensive, and practical outdoor lighting brings a new beauty to the house at night. Outdoor Light for Living has the additional safety benefits of preventing accidents and discouraging prowlers.

Through portable lamps, wall lighting, and carefully planned fixtures, most home decorators can achieve high Light for Living standards for their home. Common sense and good taste used in lighting arrangements will help you see better, work better, and live better . . . electrically in a Light for Living Medallion Home.



BETTER LIGHT for makeup or shaving. Fluorescent light in bathroom ceiling is diffused through plastic panels for spectacular effect.



BETTER SIGHT results from handsome fixture which floods dining area. Valance light bathes draperies with soft, warm color.



NIGHT LIGHTING adds a new dimension of beauty to gardens, makes walks and steps safer. Well-lighted patios and porches are decorative and can add nighttime hours to outdoor living.



Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically



GENERAL ELECTRIC SHRINKS THE 100-WATT BULB and makes it brighter, too! Small as a 60, this new 100-watt bulb gives more light than two 60's, thanks to a new G-E filament. In new eye-soothing Soft-White, with no hot spot, it gives you more and better light in lamps and fixtures where 100 watt bulbs just wouldn't go before. Even tiny boudoir lampshades won't pop off its time-tested tear-drop shape!



LIGHT FOR LIVING STARTS WITH THESE GENERAL ELECTRIC BULBS



GENERAL ELECTRIC FLOODLIGHTS GUIDE GUESTS and save shrubbery. Here's light for living outdoors! Clear-glass 150-watt "PAR-38" Floodlight welcomes arriving guests—and keeps them from backing over your rhododendrons. Use it to show off your garden this fall, scare off prowlers all year. Sealed-in General Electric reflector never needs cleaning.

Also six bright new floodlight colors, with new silicone coating in 100-watt size.



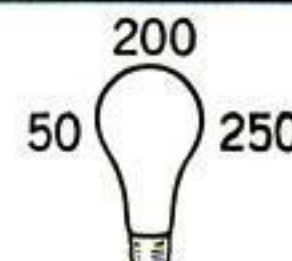
LOOK YOUR NATURAL BEST WITH GENERAL ELECTRIC HOME-LINE New G-E Home-line Fluorescent brings out warm natural tones . . . utterly unlike regular fluorescent. Use G-E Home-lines in bathroom or boudoir—in the kitchen to make food look more appetizing—in a dramatic lighted cornice in your living room. Home-lines come in all standard sizes.



Progress Is Our Most Important Product
GENERAL ELECTRIC

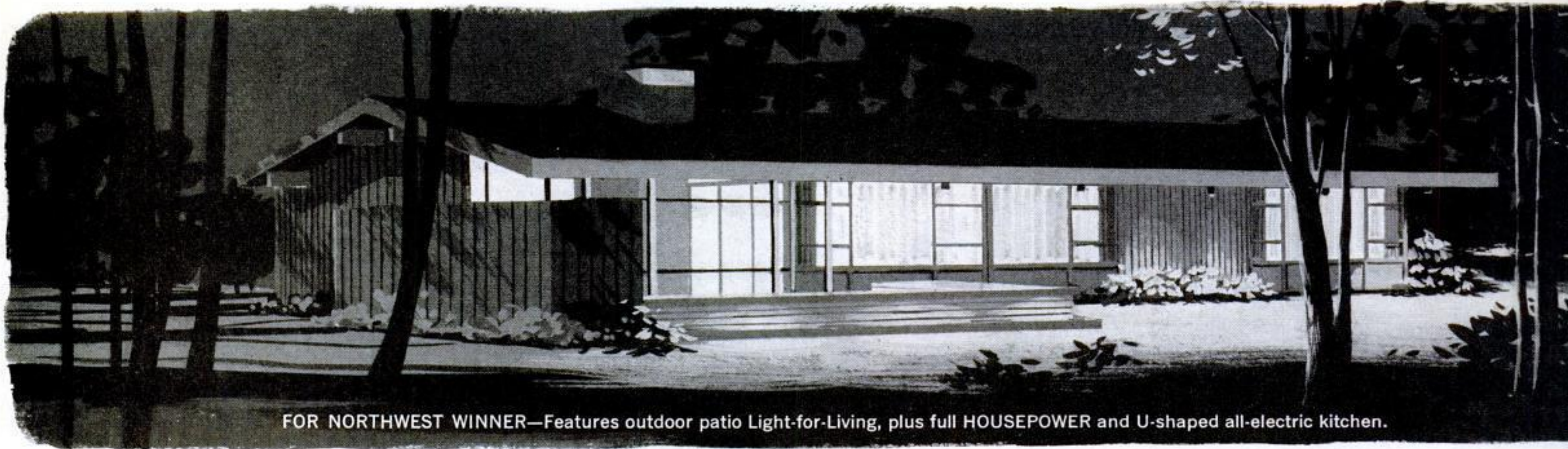


NEW 3-WAY BULB IN GENERAL ELECTRIC SOFT-WHITE. Three bulbs in one! 50-watt filament is just right for relaxed talking or TV watching. Use 200 and 250 watts for reading or close work. Even the higher levels melt away shadows and flatter complexions because they're the new General Electric Soft-White! Ask for the 50-200-250.



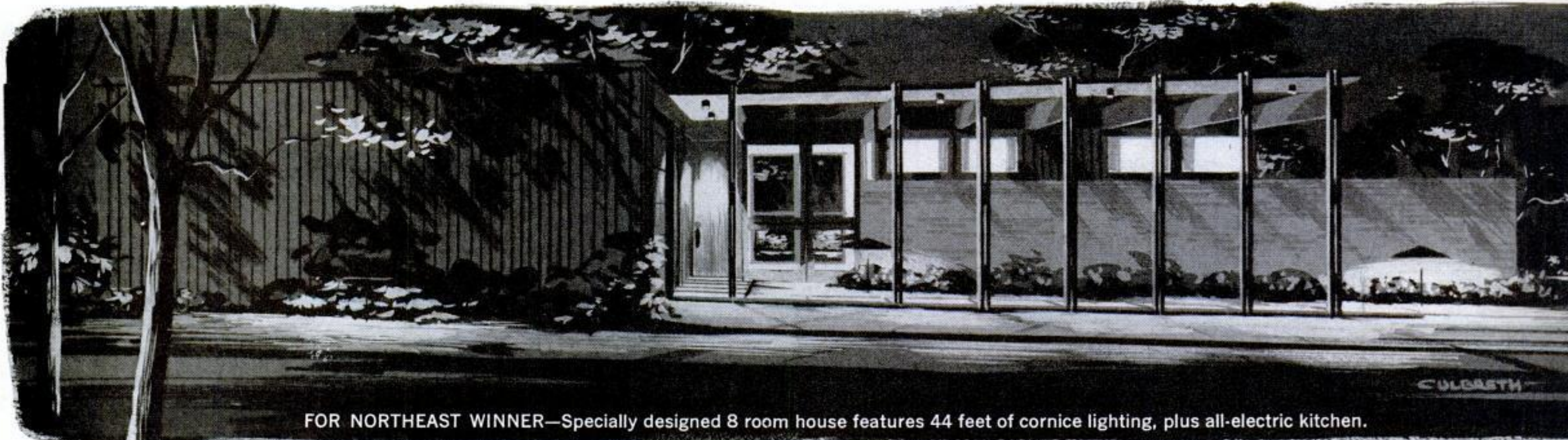
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FOR NORTHWEST WINNER—Features outdoor patio Light-for-Living, plus full HOUSEPOWER and U-shaped all-electric kitchen.

Designed by William C. McGee, North Carolina State College.



FOR NORTHEAST WINNER—Specially designed 8 room house features 44 feet of cornice lighting, plus all-electric kitchen.

Designed by John G. Bulcken, Penn State University.



FOR SOUTHWEST WINNER—This Medallion Home features special built-in decorative lighting, separated living and sleeping quarters.

Designed by James E. Kluttz, North Carolina State College.



FOR SOUTHEAST WINNER—Features valance lighting. Has 3 bedrooms, family room, living-dining rooms, all-electric kitchen.

Designed by P. Connor Lee, North Carolina State College.



Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically

You can win a \$20,000 Light-For-Living Medallion Home!

\$100,000.00 Contest!

Four new homes given away!

1,004 other exciting prizes! Easy to enter—nothing to buy!

No matter where you live—East, West, North or South—there's a beautiful new home waiting for you.

These are not *ordinary* homes. These are award-winning Light-for-Living Medallion Homes*, containing every new idea for brighter, happier, more carefree living. They were chosen by a jury of professional architects, from entries in a nationwide competition. These are *winning* homes—and you can win one for your very own.

You'll live better—electrically!

The magic of electricity is everywhere in the Light-for-Living Medallion Home. There's just-right lighting for every room, every family activity, indoors and outdoors. Lighting that makes home life more convenient and more enjoyable.

And there's every other electrical convenience, too. An all-electric kitchen, wonderful electric appliances, a complete modern wiring system for today's and tomorrow's **HOUSEPOWER** needs.

1,004 other all-electric prizes!

Remember, there are *four* First Prizes, one home in each of four different sec-

tions of the nation. Models of these and other Light-for-Living Medallion Homes are being sponsored by many Electric Light and Power Companies.

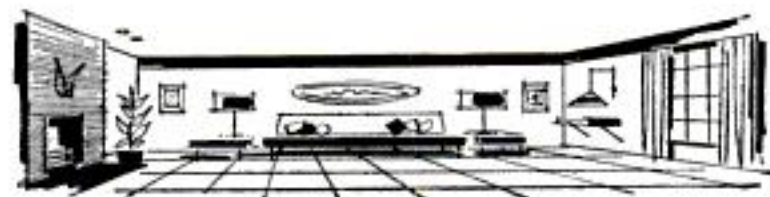
Your favorite store selling lamps, bulbs, lighting fixtures, or your local electric utility company, will be happy to tell you what you should know to enter this contest.

There are four other big prizes, too! . . . Four \$1,500.00 groups of electric kitchen appliances. And 1,000 more prizes—500 portable lamps—plus 500 packages of assorted light bulbs.

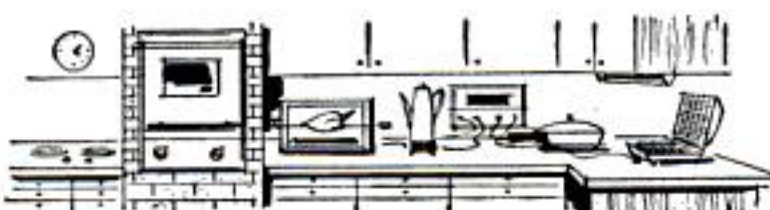
Read the entry blank information below—and make sure you enter this exciting contest *this week!*



Award-winning Homes! These four Light-for-Living Medallion Homes were chosen by a panel of professional architects.



Exciting lighting! Indoors and outdoors, your home will be filled with new ideas in functional and decorative lighting.



All-Electric! You'll live better, electrically—in one of these fully-equipped, completely modern homes.



Fun to enter! You'll enjoy filling out the Light-for-Living entry blank—get your free copy and do it now!



*Constructed on your lot

Building, buying, modernizing?
Qualify your home for this symbol of modern living with Electric Appliances, Light-for-Living and full **HOUSEPOWER**

LIVE BETTER ELECTRICALLY
sponsored by Edison Electric Institute

FREE CONTEST ENTRY BOOKLET

It's easy to enter this contest! Official contest entry blank and rules are in a helpful "Light-for-Living" booklet which has all the information you need to win!

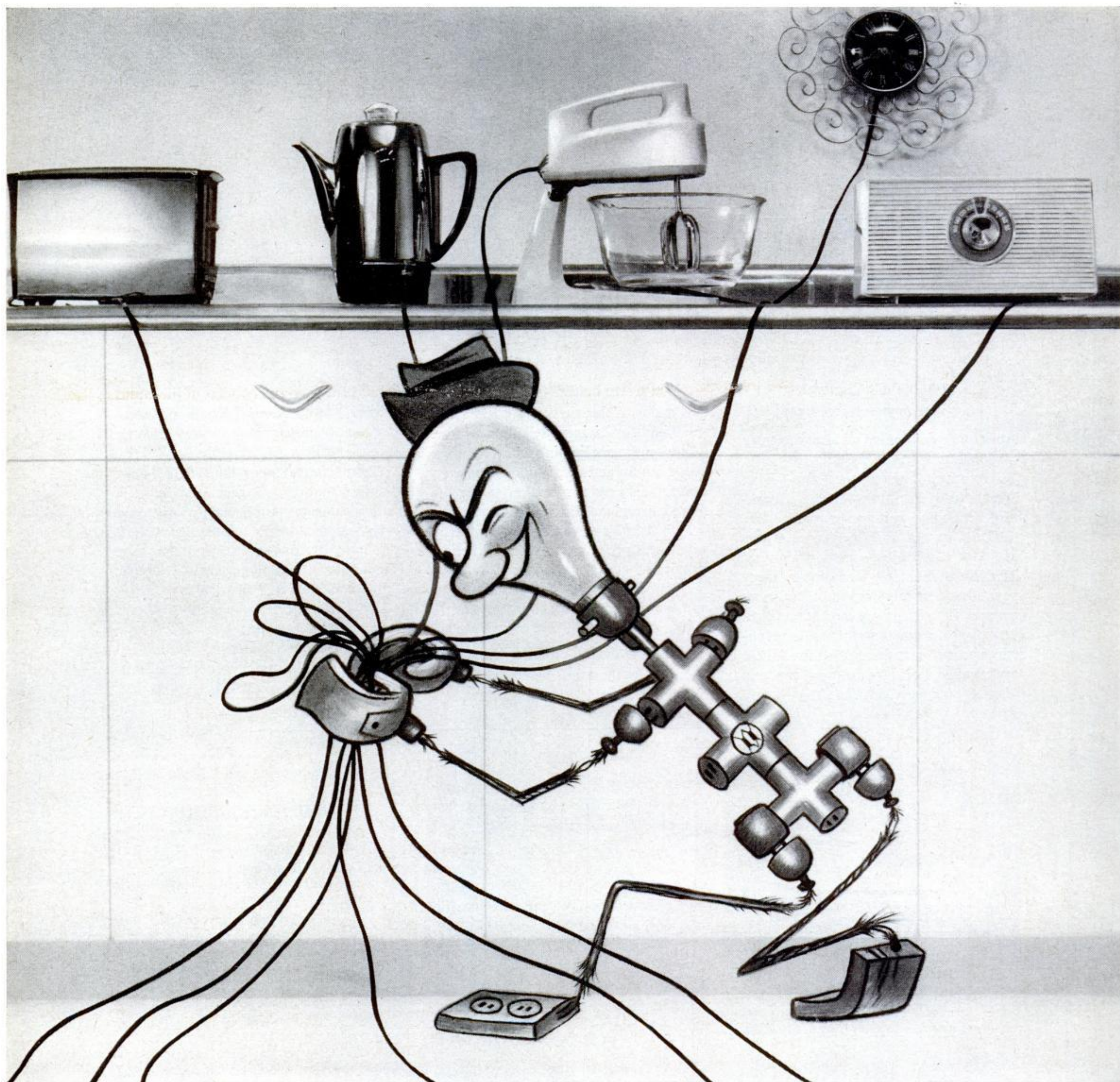
All you have to do is answer "true" and "false" statements about home lighting. Then, in your own words—using 20 words or less—complete the statement, "I WOULD LIKE TO LIVE IN A LIGHT-FOR-LIVING MEDALLION HOME because . . ."

Hurry—contest closes November 15, 1959. Get your *free* official contest entry booklet today in any one of these convenient ways:

- Ask for entry booklet at your favorite store selling lamps, lighting fixtures, and bulbs.
- Pick up your entry booklet at a Light-for-Living Medallion Home exhibit in your area.
- Ask for an entry booklet at your local electric light and power company.
- Or write to: Edison Electric Institute, Box 1923, Grand Central Station, New York 17, New York.

Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically





Don't let "Skimpy Wiring" tie up your kitchen

This could never happen in a Medallion Home. Yet many houses, old and new, are still plagued by Skimpy Wiring.

With his weak, undersized wires and overloaded circuits, Skimpy can slow down even the finest appliances . . . keep you from installing new ones. With Skimpy around, you just can't *live better electrically*.

So to bring your whole house up to modern Medallion standards, replace Skimpy Wiring with full-powered *copper* wiring. Ask an electrical contractor or power company man to check your **HOUSEPOWER** today.

Make sure any home you build, buy or rent bears the Medallion Home symbol — sign of *no* Skimpy Wiring!

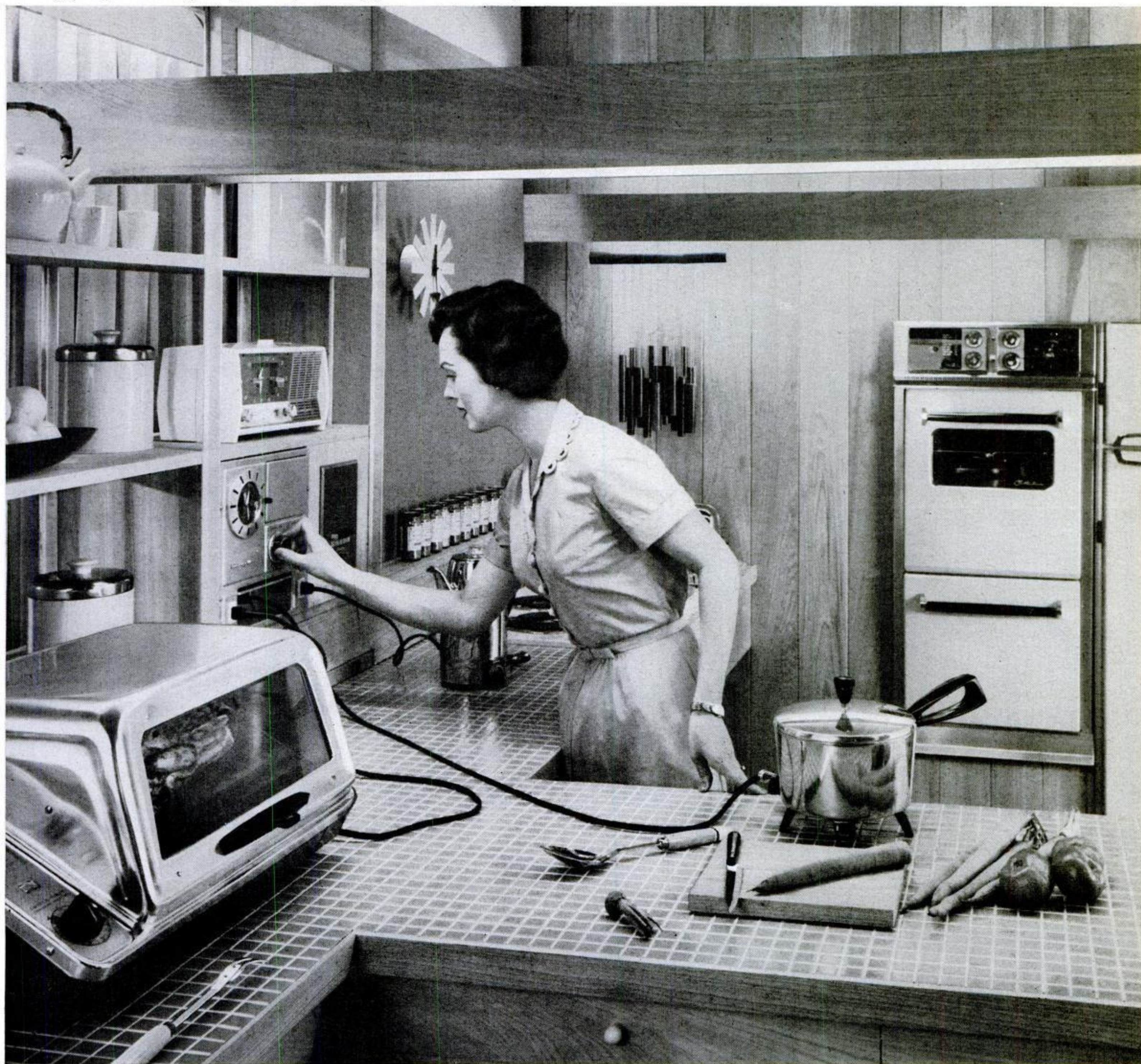


Kennecott Copper Corporation

Fabricating Subsidiaries: Chase Brass & Copper Co. • The Okonite Company



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A HOUSE-FULL OF NEW IDEAS TO HELP YOU

live better electrically with full HOUSEPOWER

What's new in the kitchen?

The *appliance center* lets you plug in up to 4 or 5 electrical appliances at once. The handy *clock-timer* starts and stops cooking when you're out shopping or doing other chores. And with the new *intercom system*, you can talk and listen to the family, all through the house—at the flick of a switch.

For full enjoyment of modern electrical living, of course, you

need full HOUSEPOWER. This means plenty of wiring, outlets and switches to run your electric appliances and give you light for today's living. Truth is, 4 out of 5 homes across the nation still suffer from low HOUSEPOWER.

Look on the following pages for more new ideas for convenient living. All these new devices and systems are available today from your electrical contractor who can tell you all about them.

(CONTINUED)

Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically

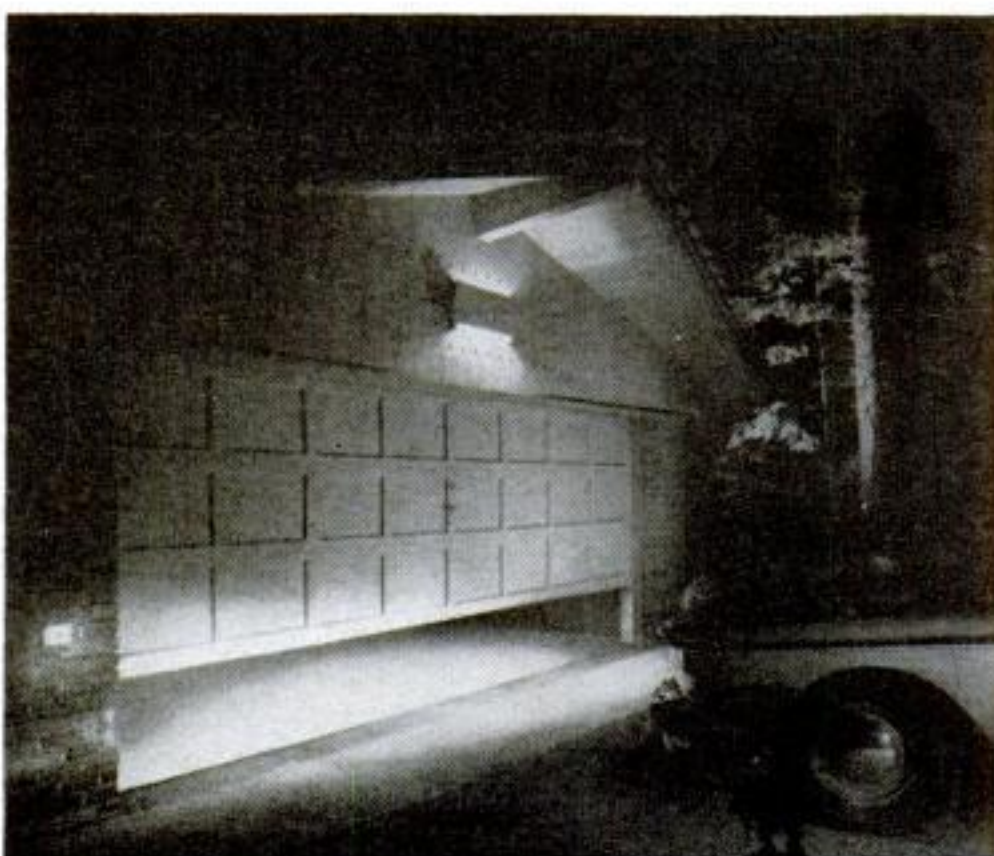


A message from your electric light and power companies to help you live better electrically



YOU SEE THE LIGHT but not the lights! *Valance lighting* diffuses light without glare, eliminates pools of darkness in room. *Automatic dimmer switch*

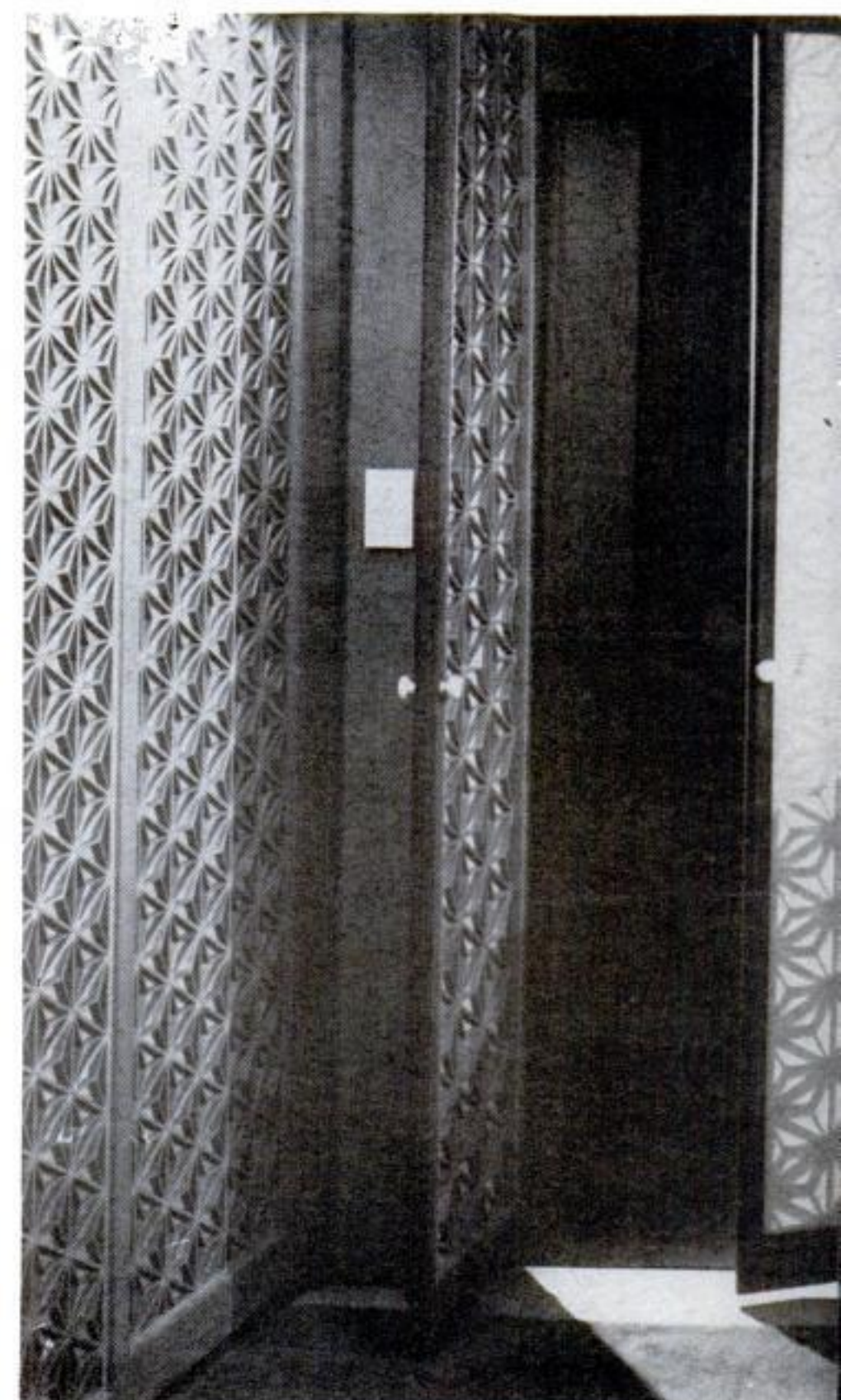
magically adjusts light contrast. Countless new decorative effects can be achieved through panel or wall lighting, illuminated ceilings, and tinted bulbs.



ELECTRIC GENIE at the garage door *automatically* opens door at command of headlights, or by radio control, as car approaches. Hidden cables keep your driveway ice free and snow-free—electrically.



THE GENTLEST TOUCH turns lights on or off without a sound. And you can have *pilot switches* that tell you whether lights are on or off throughout the house . . . or illuminated switches that glow in the dark, shutting themselves off when room lights go on.



COMFORT AND CONVENIENCE, extra safety and peace of mind are yours with the new *remote control panel*. With this remarkable device you can turn appliances and lights on or off, all from



MODERN LIGHT FOR LIVING adds extra enjoyment to outdoor dining—and entertaining. Outdoor lighting dramatically shows off the beauty of your whole

house—can be used to spotlight flowers or shrubs. Your electrical contractor will be glad to help you with plans. And weatherproof outlets, of course,

are a must for today's outdoor living. Really modern homes feature full **HOUSEPOWER**—with at least a 100 or 150 ampere service entrance.



Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically

FULL OF NEW ELECTRIC IDEAS

(CONTINUED)

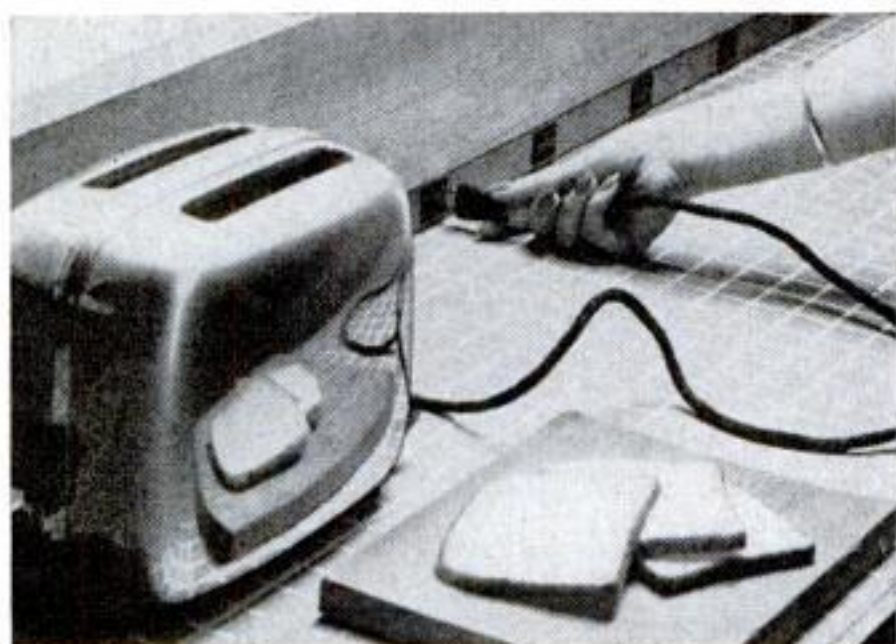


one spot. Makes it easy to start coffee-maker, heater or attic fan . . . turn on outdoor protective lighting. Have the remote control panel installed where

it is most convenient for you. Whether it's in the master bedroom, kitchen, or living room, you'll wonder how you ever got along without it. Just ask your electrical contractor about it.



PHOTO-ELECTRIC CONTROLS turn post light on at dusk. Time switches turn inside lights on and off automatically. Illuminated house number looks smart, helps guests locate your home.

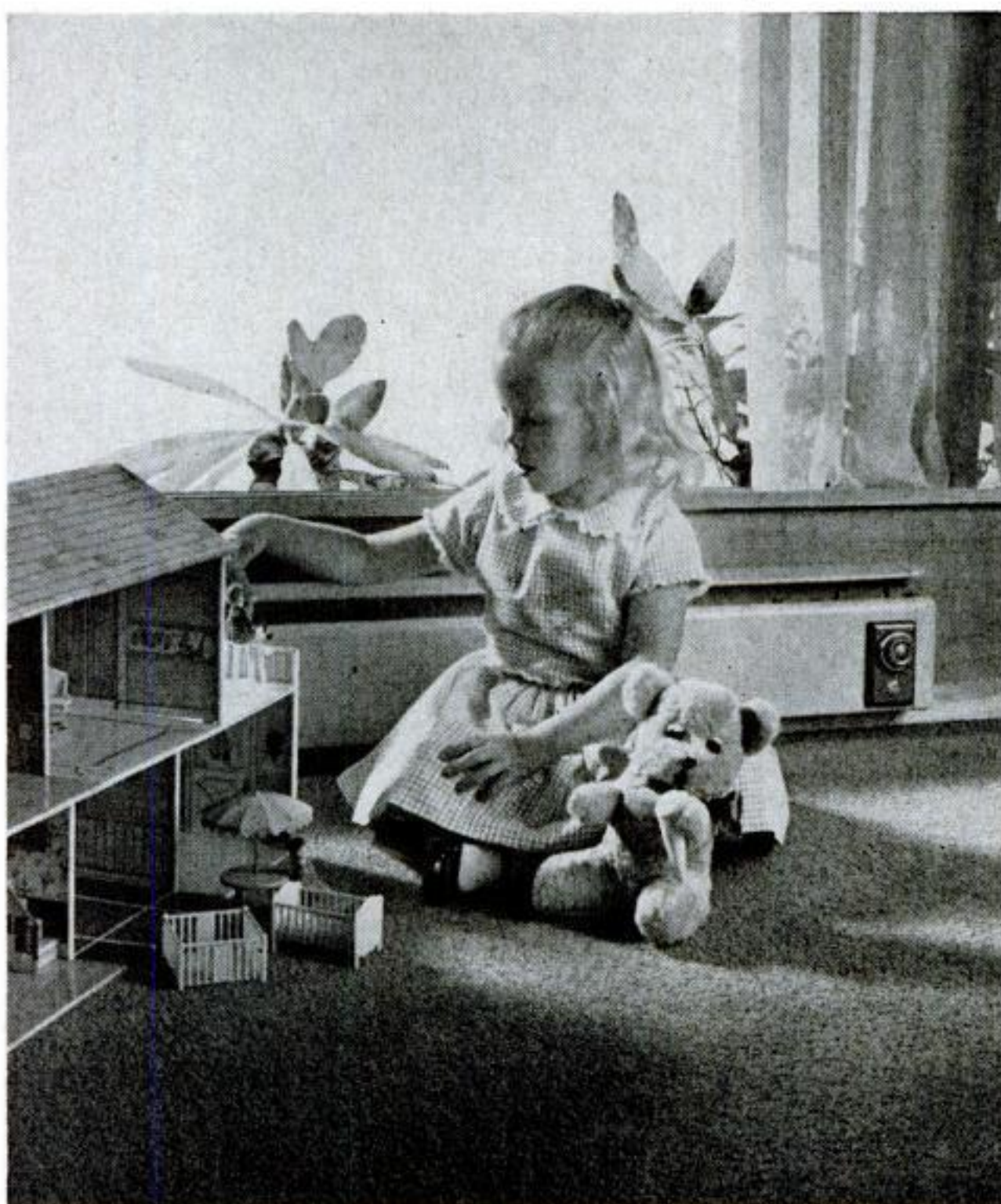


NOW YOU CAN HAVE your lamps and appliances wherever you want them without fumbling for a vacant outlet. This new *continuous strip outlet* accommodates several appliances and lamps with ease and beauty—saves steps.

Lights go on and off like magic! Doors open automatically. House and garden glow with dramatic lighting. It's all done with **HOUSEPOWER**—the silent servant of the modern age.

Your electrical contractor can tell you more about all of these fascinating new electrical conveniences. Before modernizing your home electrically, he'll be glad to give you an expert's estimate.

If you're buying, building, or remodeling, ask your electrical contractor to make sure your house measures up to the "Medallion Home" standards. The "Live Better Electrically" Medallion is your assurance of modern electrical quality, with electric appliances, light for living and full **HOUSEPOWER**.



TODAY, IDEAL INDOOR "CLIMATE" is at your fingertips. Electric heating gives you even temperature in individual rooms with the touch of the thermostat. And it's so refreshing, so comfortable, so modern—actually the cleanest heat you can get. There's no smoke, no soot, no flame, no ashes, no work. No wonder more and more families throughout the country are discovering the comfort and flexibility of this new kind of heating. And now there are so many methods available that you can select the type best suited to your locality and needs. Your electrical contractor will be glad to help you.

Your electrical industries sponsoring

HOUSEPOWER

TRADE MARK

Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically



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New RCA WHIRLPOOL portable washes more dishes, too



Rolls anywhere, hooks up to most sink faucets in seconds! No plumbing or expensive wiring. Start using it the day it's delivered, take it along when you move! Ask to see Model FP-50.

Washes cleaner with whirling spray. Exclusive self-cleaning Filter-Stream* system shoots jets of hot, filtered water from the rotating spray arm, whirls away lipstick, egg yolk, other stubborn stains. Food particles will not be redeposited on dishes. Gives dishes two complete detergent washings for sparkling clean dishes.

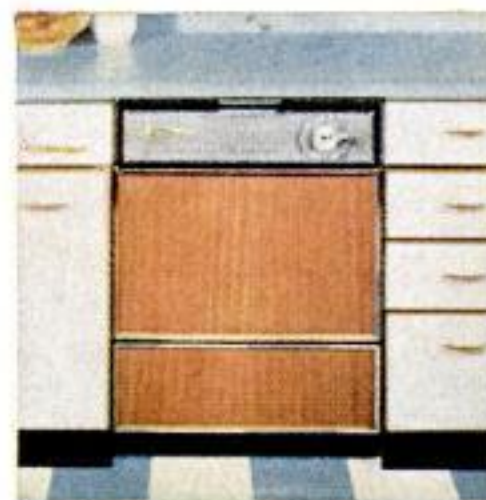
2 cycles—plus Ready-Rinse. Normal cycle will pre-rinse, wash, rinse, wash again, rinse twice and dry spotlessly. Short cycle saves time and water when you do china and glasses alone. And the Ready-Rinse quickly cleans dishes that need no sudsing.

Easy-loading. New Roll 'N' Load* top rack makes every corner easy to reach. Random-Loading rack lets you fit in dishes, pots, and pans anywhere.

Holds 12 full place settings.† Some portables hold only eight to ten. This new RCA WHIRLPOOL holds

12 place settings—72 dishes, 100 pieces of silver. Cleans pots and pans spotlessly, too. More capacity than most portables, more than many built-ins! Just 24" wide and the perfect height to serve as an extra work counter.

*Tmk. †Standards set by National Electrical Mfrs. Assn.



Built-in models, too, with 2 cycles, Filter-Stream washing action, Random-Loading. Wash 14 place settings at one time. Choice of white, pink, yellow, copper, brushed chrome—or use fabric, wallpaper or wood front panel to match your kitchen decor.

America's first family of home appliances

RCA Whirlpool

© 1966. PRODUCTS OF WHIRLPOOL CORP., ST. JOSEPH, MICH. (USE OF TRADEMARKS RCA AND WHIRLPOOL AUTHORIZED BY TRADEMARK OWNER, RADIO CORPORATION OF AMERICA.)



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VISIT MODEL HOMES, SEE THE LATEST IN ELECTRICAL LIVING; THEN VISIT YOUR ELECTRIC UTILITY, BUILDER, ELECTRICAL CONTRACTOR, OR APPLIANCE DEALER

HOW YOU CAN ENJOY ALL-ELECTRIC LIVING

You'll find many of the products to help you live better electrically displayed on the previous pages. They add up to new highs in modern living standards that are well within the reach of most people.

Contact Your Electric Utility. Ask about Medallion homes in your community. They will direct you to open houses featuring the hallmark of electrical excellence. Model homes which are a part of the program sponsored by the National Association of Home Builders are excellent showcases for the latest in all-electric living.

Your utility can also give you the complete set of electrical standards that will bring your present home up to Medallion levels. They can help you plan your electric kitchen, laundry, light for living—or advise you on the purchase of individual appliances.

Take a New Look at your present home, apartment, or the house you are about to buy. Is it equipped with enough up-to-date electric appliances? Is your heating system giving genuine comfort? Does the lighting add beauty as well as proper illumination for work and play? Are there enough electrical outlets? Your utility will help check the "Housepower"—electrical capacity, circuits and wiring.

See the Right Man to fill your needs. Wiring need upgrading? See your electrical contractor. For complete kitchens and laundries or individual appliances, an invaluable helper is your kitchen specialist or appliance dealer.

You'll find your electric utility an excellent reference in locating qualified businessmen to do your work. And your builder or realtor, of course, has information on complete new Medallion homes.

The Small Monthly Price Tag is one of the really big surprises of all-electric living. The ways to pay are as many and varied as individual credit needs.

See your local savings and loan association or your bank. Ask about home improvement loans which are usually available at very reasonable terms. Or, in states where open-end mortgages are permitted, your Medallion financing plan can add the expense to your present mortgage. This would mean a hardly noticeable increase in your regular monthly payments. To defer payment of smaller amounts, ask about personal loans, requiring merely your signature.

Dealer's Credit Plans can be arranged to finance an entire modernization project, including not only appliances but also all collateral work. Check also on Skip-Payment Plans which permit you to purchase an appliance now and defer first payment for as long as three months.

Someone You Know is already enjoying the benefits of all-electric living. Join over 100,000 American families who are Medallion home owners. Share the thrill of this modern way of life. Make your house a Medallion home and live better electrically.



STEP UP to modern luxury: a new laundry can be your start toward all-electric living, or a new electric kitchen, handsome new lighting, or electric heat.



CHECK CLIMATE CONDITIONING—no matter where you live, you can enjoy a form of electric heating or cooling that will offer you unsurpassed benefits.



GLOW WITH PRIDE—Medallion standards are an achievement in modern living—a real comfort and a plus value if you ever decide to resell your home.

Visit model homes in your community during National Home Week
Make your house a Medallion home and live better electrically



RUSSIAN ORTHODOXY: A CAPTIVE SPlendor



AT A MOSCOW SERVICE, BELIEVERS KISS THE CROSS AND MAKE OFFERINGS

The ecclesiastical pomp and splendor of Russian Orthodoxy, shown in these color pages, is unrivaled among the world's religions. Today, despite 42 years of Communism, it remains the faith of 50 million Russians.

Orthodoxy (from the Greek *orthos* and *doxa*, "true belief") is little known to Westerners but is the oldest tradition in Christendom. Until the Great Schism in 1054, Orthodoxy and Roman Catholicism together comprised the One, Holy, Catholic and Apostolic Church. Long before that, what is now called Orthodoxy had spread through much of Asia, Africa and Europe. It reached Russia when Prince Vladimir—later made a saint—had Greek priests baptize everyone in Kiev in 988.

It is from the East, where Christianity began, that Orthodoxy derives its special characteristics: an emphasis on mystery and ritual; distinctive architecture, ceremonial pageantry and gorgeous vestments—and far from least, its historic subservience to the state. This reached its height in Russia under the czars, who used the church to justify Moscow's claim to be a divinely sanctioned "Third Rome." The church was always a prop for their power—and was rewarded with great wealth.

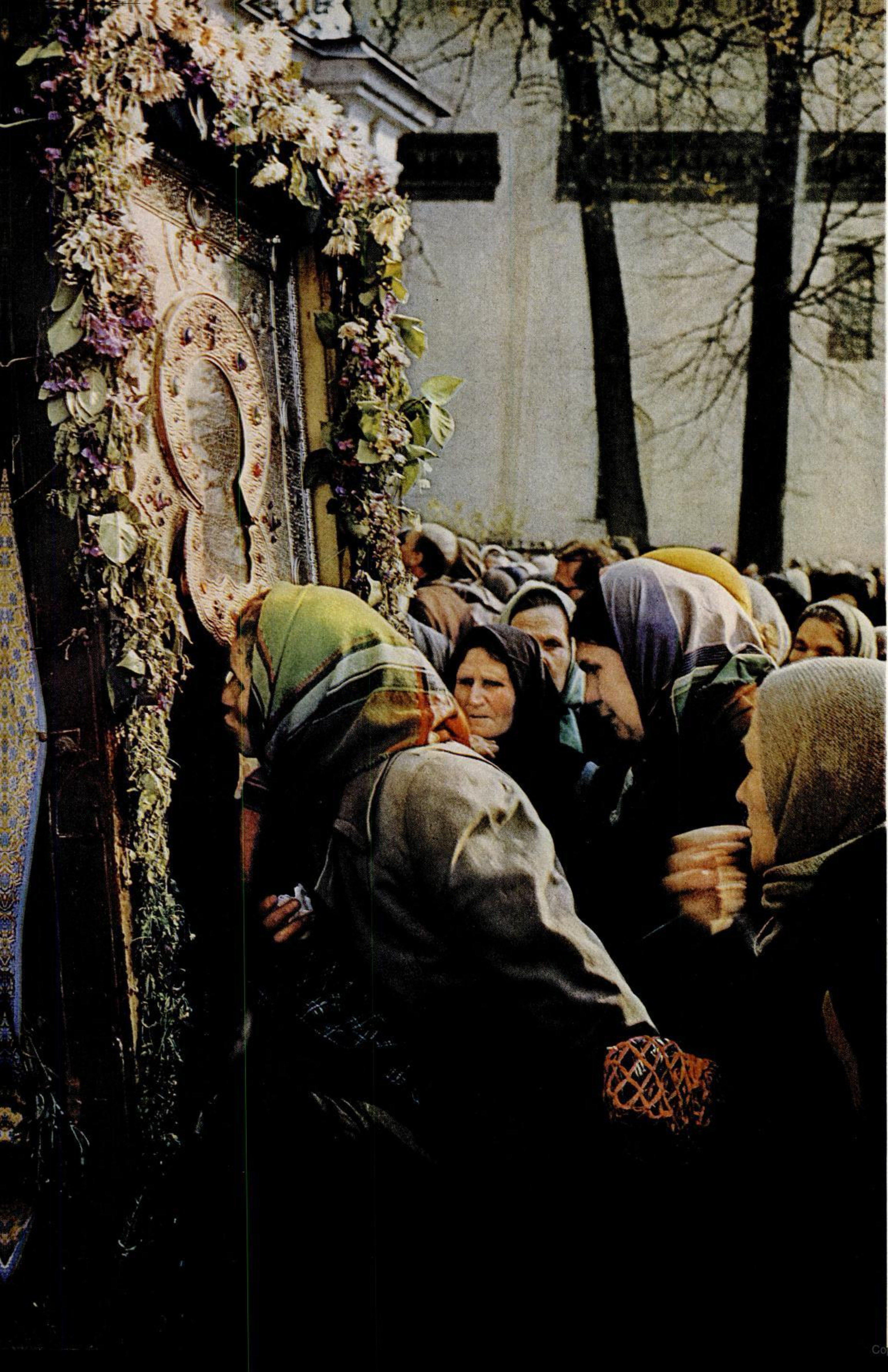
At first the Communists brutally persecuted Orthodoxy. They shut down every church building shown here for many years, and killed thousands of priests. But Stalin knew the church still had a strong hold, and when the Nazis overran much of the U.S.S.R. he needed its help. So Stalin gave some concessions to religion, and the church treated him like a czar. Orthodoxy's collaboration is ensured by a special government ministry and the Communists have utilized the church ever since as an arm of the Soviet state.

The Soviet Union still puts many shackles on religion. It teaches atheism in its schools and prohibits the religious education of children under 18. A standard Soviet textbook states: "No Jesus Christ has ever existed. . . . The myth about him was invented on the pattern of other Oriental myths." Before the Communists, Moscow was full of churches; now it has only one for every 100,000 people. Other religious groups—including Jews, Moslems, Roman Catholics and Protestants—fare much worse, as a later LIFE story will show.

Yet Russia still has half as many Orthodox believers as it had under the czars, and their offerings give priests a highly privileged position, with far more comforts than most Soviet citizens have. For more details on how Orthodoxy is now faring, see article following color pages.

Devout woman kisses icon of St. Sergius, a patron saint of Russia, on his feast day at Zagorsk near Moscow. Worshipers venerated icons outdoors as they waited to get in.

Photographed for LIFE by CORNELL CAPA



RUSSIAN ORTHODOXY

CONTINUED

Pilgrims from all over Russia await their turn to draw holy water from a spring at Zagorsk monastery. St. Sergius founded monastery in 1340. The bubbling spring reputedly arose when he made the sign of the Cross over a pool of rainwater. The water is thought to bring cures.

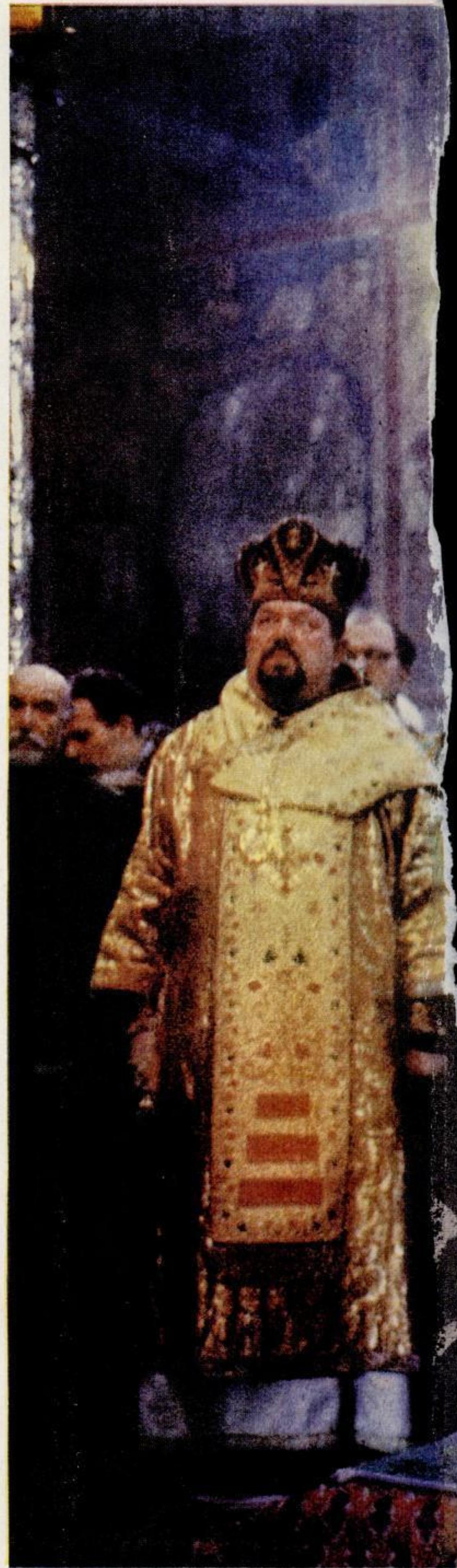
Five thousand worshippers pack Kiev's Cathedral of St. Vladimir for a service. It is typical of Russian churches, with icon screen hiding sanctuary and altar from worshippers. Communists closed cathedral. The Germans reopened it in 1941 and it has stayed open ever since.







Archpriests take part in vespers at the Monastery of the Holy Trinity and St. Sergius in Zagorsk. At far right in background is the monastery's Abbot Pimen. By ancient tradition, but not by rule, Orthodox clergy wear beards.



Patriarch Alexis, the white-bearded 82-year-old spiritual head of Russia's Orthodox Church, stands by sarcophagus of St. Sergius (*background*) before venerating relics of the saint.



Seated before the altar screen at Zagorsk, Patriarch Alexis wears Orthodox miter. Flanking him are two archdeacons and next to them are two bishops in miters, Joseph of Stanislav

(left) and Ioasaf of Sumi (right). At this point in the service, the "royal doors" to the sanctuary are open behind the Patriarch. The whole group is facing the congregation.

CONTINUED



At various points in the liturgy, the "royal doors" in the icon screen are opened, giving worshipers a glimpse of the altar. Smoke from the incense that has just been used at this service in Zagorsk is still rising.

Father Alexei Livitsky christens an infant in Kiev. Following ancient practice, he reads an exorcism which makes God's claim on the child and warns the devil away. Later he will immerse the child in the font.







Various stages in the sacrament of Holy Eucharist are shown here and on next two pages. At left, a priest stands at an altar in Zagorsk while a litany is sung. Communion vessels are covered by an embroidered cloth.

Above, priests hold cloth over Communion vessels while the choir sings the Creed. This takes place shortly before consecration of the bread and wine. The priests wear the heavy vestments they use to administer sacraments.

CONTINUED

RUSSIAN ORTHODOXY

CONTINUED

Priest partakes of consecrated wine at altar while priest at right reads Prayers of Thanksgiving. All officiating priests receive the bread and wine in turn. Then the consecrated bread is cut up and placed in the wine chalice. The worshipers outside receive the wine and bread together on a spoon.







ZAGORSK MONKS, ALL VIGOROUS AND MOST OF THEM YOUNG, LINE UP TO SHOVEL SNOW. SERVANTS DO MOST OTHER CHORES

Alliance with the unholy

by PATRICIA BLAKE, *LIFE Correspondent*

THE magnificent churches, the splendid ceremonies, the opulent vestments and priceless icons shown on the preceding pages do not for a moment mean that the Kremlin has abandoned its anti-religious policy. Instead, as I have seen for myself in Russia, church and state have turned a bloody conflict into a strange and mutually profitable marriage of convenience.

When Stalin made his conditional peace with Orthodoxy in 1943, he well knew that no great church in history was better fitted to serve the interests of a fiercely nationalistic state. The Russian Orthodox Church knew equally well that only by compromising with the Communists could it ever regain any of the privileges it had enjoyed under the czars. So far each side is at least partly pleased with the results of the compromise.

The Communists have many reasons to rejoice. They can attack the church but it cannot attack them. The few religious publications that the Kremlin allows can be sold only in churches. The state, on the other hand, gives wide distribution to books debunking religion. The state-controlled press regularly denounces the church for its "unscientific and regressive beliefs." True, the Communists have given up trying to "enlighten" the hard core of elderly Orthodox believers. The Communists reason that these old people will die off soon anyhow. In the meantime they remain loyal to the nation, their children

can be indoctrinated against religion—and the church serves as an efficient tool of Soviet policy.

The Church, too, has some reasons for satisfaction. The savage persecution which Stalin ordered during the long years before World War II has ended. An old monk, whispering to me at the Zagorsk monastery shown in many of the photographs on the preceding pages, described the terror of those years. All Zagorsk's churches, its seminary and academy were closed. Its priests and monks were arrested or driven away. The monastery became an antireligious museum where schoolchildren and workers were brought in droves to mock the "relics of czarist superstition." The old monk was one of a handful who managed to remain behind and make a living for 15 years, carving dolls for a local toy factory and secretly keeping their vows.

Now the Russian Orthodox Church has new wealth, prestige and privilege. A clergy of 50,000 is administering the sacraments to 50 million believers, mostly middle-aged and elderly but still comprising one fourth of the U.S.S.R.'s entire population. The ranks of the Russian priesthood are being enlarged by young men graduating from 10 seminaries and theological academies. After being ordained, they receive church salaries ranging from 4,000 to 10,000 rubles (\$400 to \$1,000) a month, far more than the pay of Soviet scientists or engineers. Even a plain parish priest may have a car, a comfortable private house with servants and a country cottage for his paid



Tivoli's famed Villa D'Este gardens.

Italy is only minutes away when Chef Boy-Ar-Dee is on your shelf.

Chef Boy-Ar-Dee Spaghetti and Meat Balls make meals doubly satisfying. Just watch the family go for this dish of tender spaghetti, tasty beef meat balls, zesty tomato sauce. Meal after meal, it's everlastingly enjoyable. And what a happy way to stretch your food dollars. Cost: only about 15¢ a serving.



Start your Italian meal with Chef Boy-Ar-Dee Spaghetti and Meat Balls. Add a salad, garlic bread. Finish with Italian coffee.



For a hot, hearty lunch for children, serve Chef Boy-Ar-Dee Spaghetti and Meat Balls. It's nourishing, delicious—kids love it.

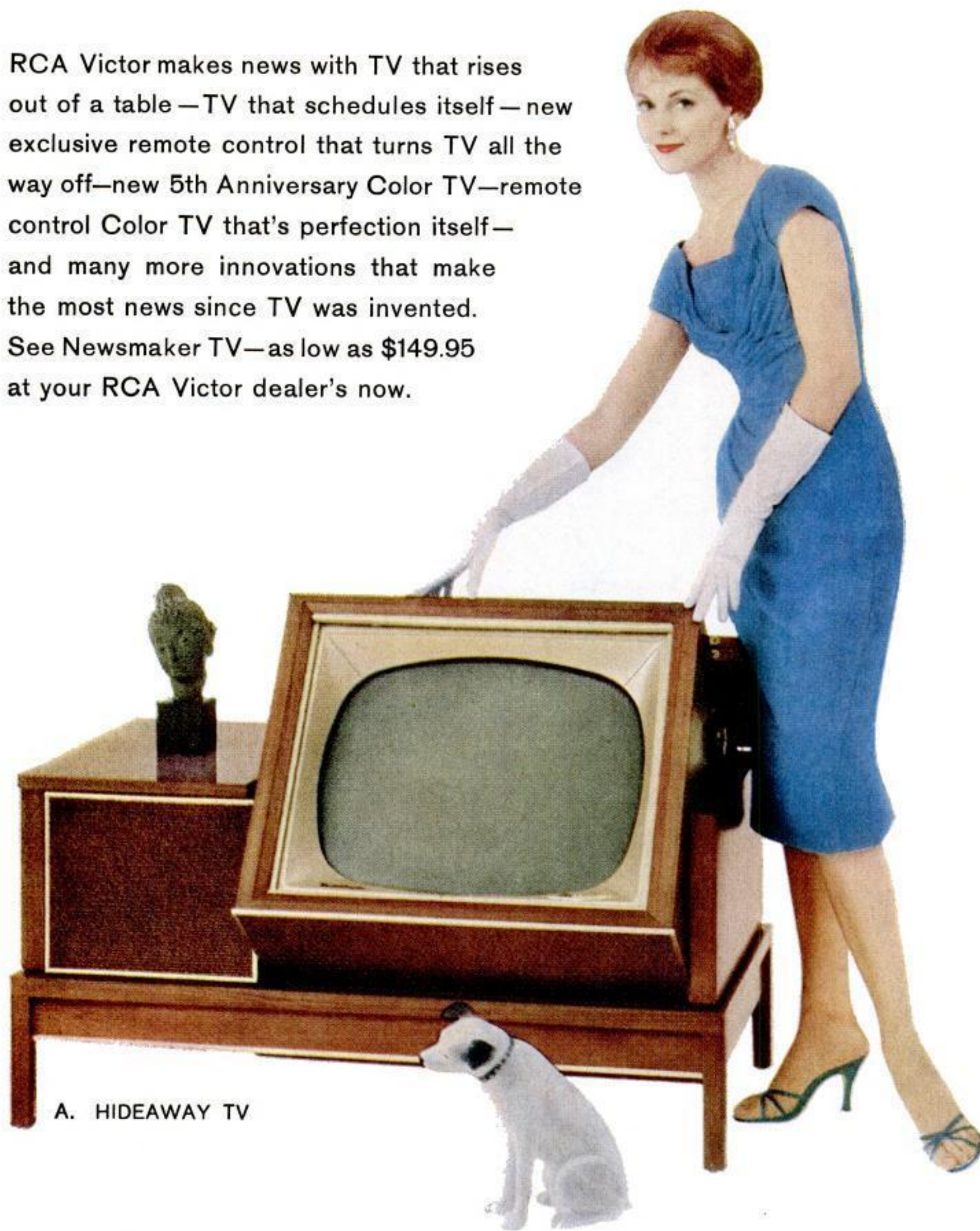


Everywhere in U.S. and Canada.

CHEF BOY-AR-DEE[®] Spaghetti and Meat Balls

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RCA Victor makes news with TV that rises out of a table—TV that schedules itself—new exclusive remote control that turns TV all the way off—new 5th Anniversary Color TV—remote control Color TV that's perfection itself—and many more innovations that make the most news since TV was invented. See Newsmaker TV—as low as \$149.95 at your RCA Victor dealer's now.



A. HIDEAWAY TV

Dependability is why... more people buy

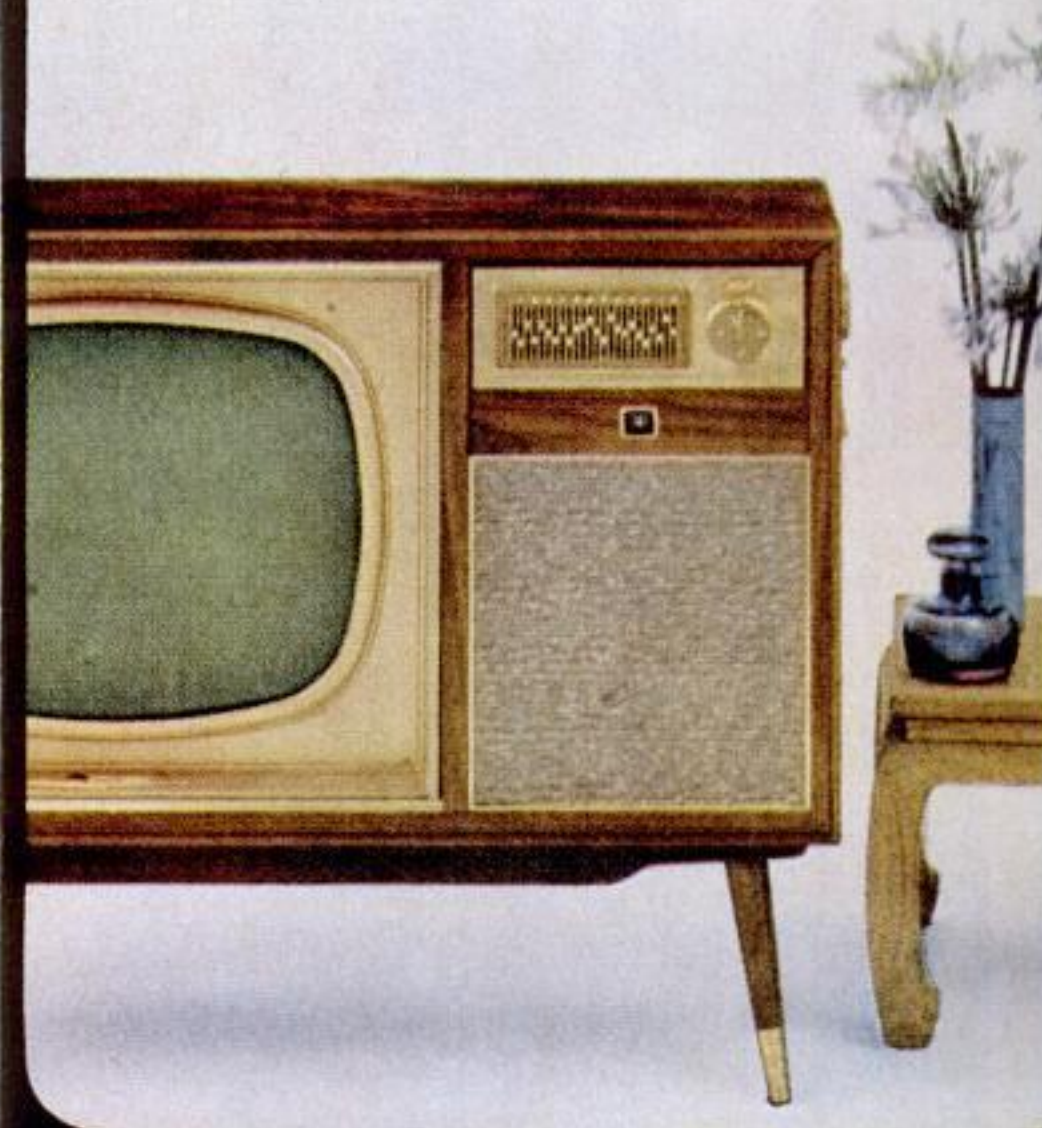


RCA VICTOR
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than any other television

B. SELF-PROGRAMMING TV



F. REMOTE CONTROL SPORTABLES



J. TRUE HI-FI SOUND SYSTEM



Which Newsmaker for you?

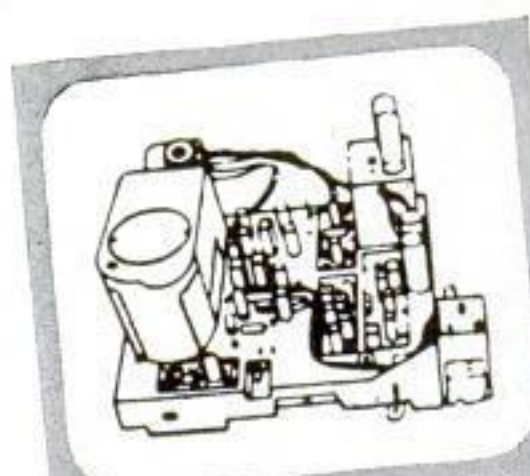
Here are the inside stories

- A.** An RCA Victor first. The TV hides away when not in use. It converts into a beautiful living room table in seconds. For TV, fold back the table top, swing up the TV, then sit back and enjoy one of TV's great innovations. *New Vista Hillsborough, N202, 262 sq. in. picture, 21" tube (overall diagonal), 1 finish.*
- B.** TV that thinks for itself! Pre-select the shows you want to see for up to 12 hours, and right on time the exclusive "Magic Memory" will turn TV on and off, even changes channels and tunes itself—*automatically!* Features Automatic Channel Equalizer, "One-Set" fine tuning, 3-speaker Panoramic FM Sound, stereo jack. *Programmer, 210-KA-46, 262 sq. in. picture, 21" tube (overall diagonal), 2 finishes.*
- C.** This one has *everything!* Powerful dual channel AM-FM stereo radio—4-speed "Victrola" stereo record player—6 speakers—and TV with 24-inch picture tube (overall diagonal), 332 square inch picture. It's all you've ever wanted—in one beautiful cabinet. *Rockland, 240-KV-77, 2 finishes.*
- D.** New 5-function "Wireless Wizard" remote control turns TV off *all the way!* Turns picture on, selects channels and any volume level, turns off *both* TV picture and chassis! Cabinet in smart, modern styling. *Landis, 210-KR-45, 262 sq. in. picture, 21" tube (overall diagonal), 3 finishes.*
- E.** Two new Duo-Cone Speakers—one in front, one on the side—give extended-range high-frequency response. Lowboy TV features 25% brighter picture, greater contrast. *Fairfield, 210-K-35, 262 sq. in. picture, 21" tube (overall diagonal), 2 finishes.*
- F.** The portable with the picture and sound of a big set now has new 3-function remote control. Turns picture on or off, changes channels. "Wireless Wizard" hand unit in non-breakable "IMPAC" case. *Petite Sportable, 170-PR-10, 156 sq. in. picture, 17" tube (overall diagonal), 2 finishes.*
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- J.** TV with superior sound. Has new high fidelity amplifier that delivers 13 watts peak power, 3-speaker Panoramic FM Sound System, tone control, phono and stereo jacks. *Lexington, 210-DK-65, 262 sq. in. picture, 21" tube (overall diagonal), 3 finishes.*
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- L.** Newsmaking Color TV is like two sets in one—superb "Living Color" plus sharp, clear black-and-white. And you tune with advanced 7-function remote control. *Kenbridge, 210-CKR-94, 260 sq. in. picture, 21" tube (overall diameter), 2 finishes.*
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Not'l. adv't. list price shown, optional with dealer. Slightly higher for West, South, UHF available, extra, on most models. Price, specifications subject to change. ® RCA trademark for record and tape players.

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THROUGH
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Read all about it! The big news in picture, sound and tuning



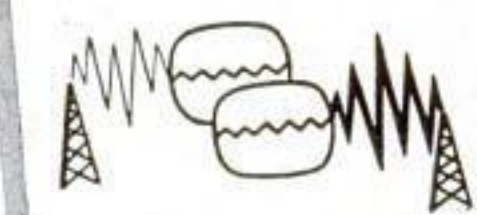
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Only RCA Victor's compact, high-power chassis protects your investment all 3 ways! *Tube Guard* makes every tube, including picture tube, last far longer. Dependable *power transformer* insures greater safety. *Security Sealed Circuits* seal in the quality—seal out the trouble!



2 THE EXTENDED-RANGE SOUND THAT STAYS SET BY ITSELF

New Duo-Cone Speaker—like 2 speakers in one—gives extended high-frequency response, room-filling sound. It teams with "Stay-Set" volume control to keep sound at exactly the level you want.



3 THE BRIGHTER PICTURE THAT ADJUSTS ITSELF

Increased picture power produces up to 25% brighter pictures—greater contrast, more sparkle! And new Automatic Channel Equalizer adjusts itself to keep every picture at highest quality level.



4 THE ELECTRONIC TUNER THAT FINE-TUNES ITSELF

With "One-Set" electronic fine tuning, you adjust fine tuning just once for each channel and the best setting stays that way. No more fooling with tuning every time you change channels!

IT'S THE ONLY TV THAT HAS IT ALL!

More worth-more features: New Hi-Level Contrast Control gives wider range of contrast . . . powerful new tuners block out unwanted signals, amplify the ones you need for best reception . . . stereo jack in almost all sets allows use of TV sound system as second speaker for Stereo Hi-Fi. And even *that* isn't all! See all the Newsmakers and Newsmaking features at your RCA Victor dealer's now!

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Here are the inside stories

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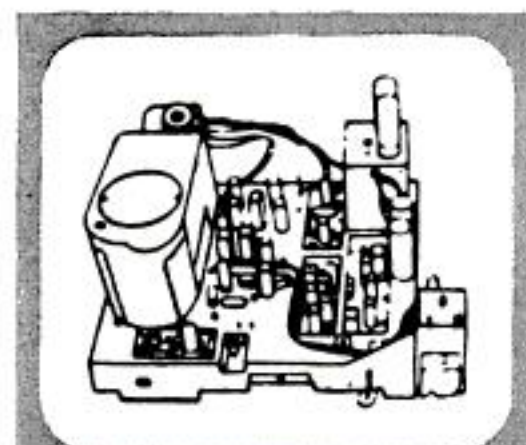
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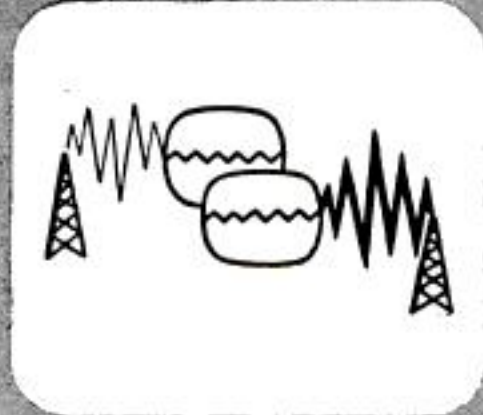
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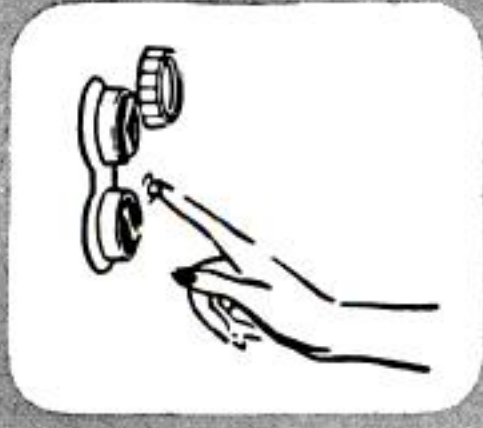
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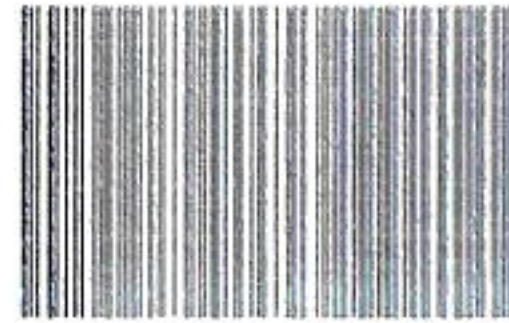
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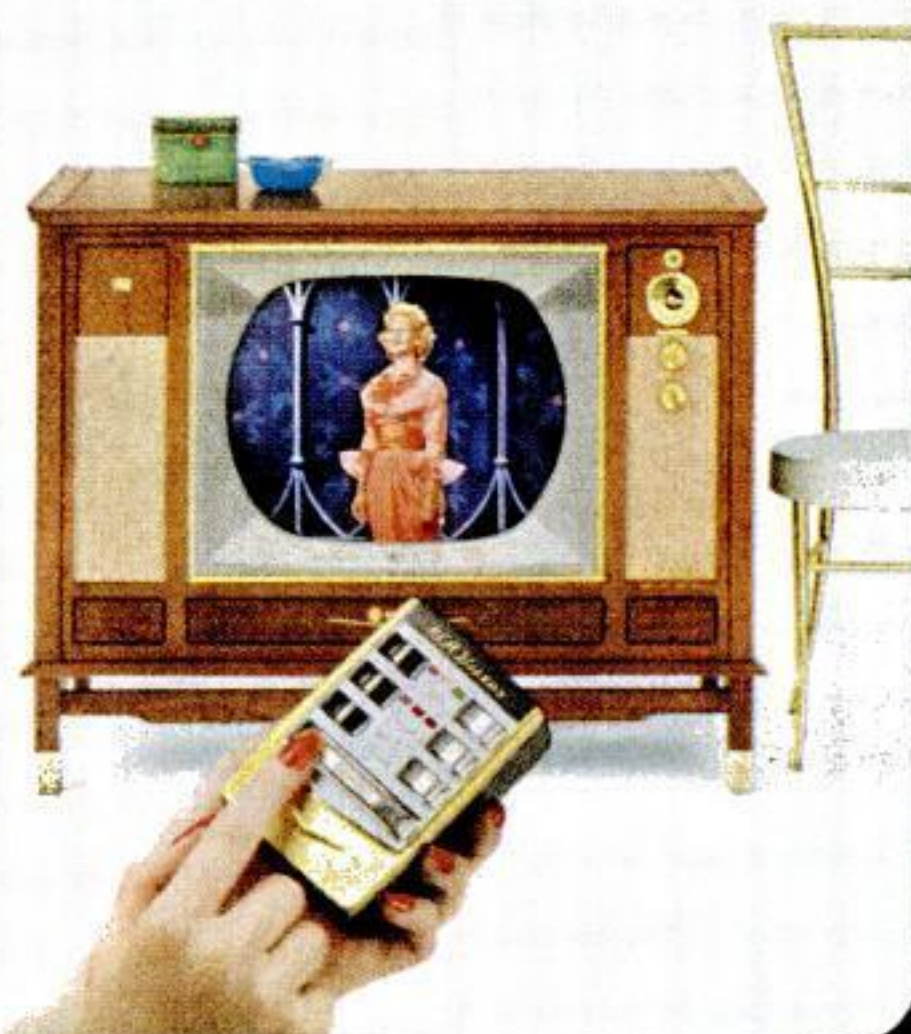
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TEXT CONTINUED FROM PAGE 114

vacation, although such comforts are beyond the reach of most Soviet citizens. In 69 monastic institutions monks and nuns are leading devotional lives totally divorced from Communist society.

A principal source of Orthodoxy's wealth is the broad tax exemption granted by the state. The church can keep all the money it gets from the generous contributions of the faithful and from its sale of religious objects. The sale of votive candles alone nets the Leningrad diocese over \$1.5 million a year. And although Orthodoxy has regained few of the churches, monasteries and seminaries it had in czarist Russia, the Communists have actually extended the church's power in subjugated areas. In 1946, the 3.6 million Roman Catholics of Galicia (annexed from Poland by the Soviets in 1939) were forced to accept the authority of the Russian Orthodox Church as a means of binding them closer to Moscow. The once independent Eastern Orthodox churches of Albania, Romania and Bulgaria are now dominated by the Russian Church for the same imperialist reasons.

The apparent incongruity of this church-state relationship makes more sense when seen in the context of Orthodox history.

The churches now known as Eastern Orthodox have 150 million followers, a Christian communion second in size only to Roman Catholicism. They began in the Holy Land before there were any Christians in Rome, and the New Testament was first written in Greek, the original language of Orthodoxy. After Constantine shifted the Roman Empire's throne to Constantinople in 330 A.D., the latter city became known as the "second Rome." Indeed, it rivaled the real Rome in wealth and power and the Patriarch of Constantinople became a competitor of the Pope in Rome. The Eastern churches showed great missionary zeal, sending out evangelists to Asia, Africa and Europe. They reached Russia in the year 988.

During these centuries the East-West religious conflict grew sharper, culminating in 1054 in the complete split that still endures. The shocking pillage of Christian Constantinople by the Crusaders in 1204, when the Crusaders were actually supposed to be driving the Moslems from the Holy Land, widened the schism.

In doctrine, however, the Orthodox are still close to the Catholics, although with a few important differences. One of their earliest disputes concerns the relationship of the persons of the Holy Trinity. While Catholics believe that the Holy Ghost proceeds from both God the Father and God the Son, the Orthodox Christians believe that the Holy Ghost proceeds from God the Father only. Like the Catholics, the Orthodox revere the Virgin Mary but unlike the Catholics do not accept her Immaculate Conception. And of course the Orthodox emphatically do not share the Catholic belief that Jesus placed the earthly center of Christianity in Rome and the papacy.

The crucial political difference between Roman Catholicism and Orthodoxy is that the popes have traditionally insisted on

CONTINUED



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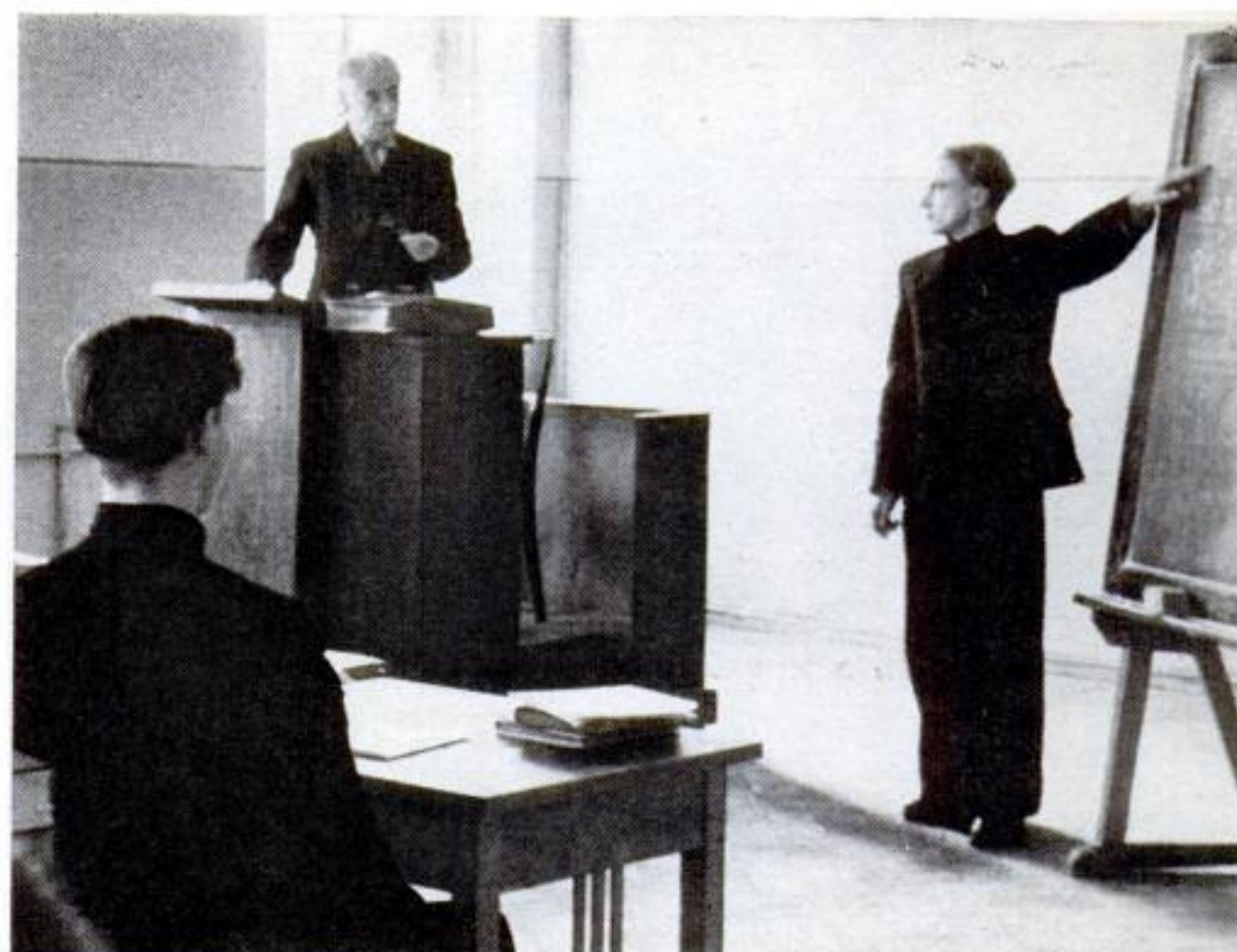
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RUSSIAN ORTHODOXY[®] CONTINUED

the independence of their church while Orthodoxy has submitted to one political system after another. The Byzantine emperors dominated the Patriarchs of Constantinople, and even non-Christian rulers were able to do likewise. After Constantinople was conquered by the Turks in 1453 and the ancient center of Orthodoxy went into temporary eclipse, Moscow proudly assumed the role of the "third Rome" of Christendom. Czar Ivan the Terrible assumed the title of "immovable foundation of the Christian Church." Thus from the first the Russian Orthodox Church accepted the authority of the "divinely anointed" czars. At the same time the czars used the church to support their government. Priests were ordered to preach against peasant disturbances, and eventually were required by law to report any plots to the police, even when they got their information in the confessional (they still are required to do so). The church consecrated the czars' despotism at home and blessed the banners of their armies abroad.

Orthodoxy's conviction that God meant it to help extend Russia's spiritual empire over heretics and heathens coincided neatly with the imperialistic ambitions of the czars. To millions of Russians the fate of the church and the destiny of the homeland became virtually interchangeable. Czars might come and go. But the church, as guardian of the true faith, was—and to the devout still is—the glorious symbol of Russia's manifest destiny.

Ironically, it was the Nazis who brought this fact home to Stalin. When Hitler's armies invaded the U.S.S.R. in 1941, they shrewdly opened the churches Stalin had closed and proclaimed that Russians could worship freely under the protection of the Third Reich. Nazi quartermasters even supplied churches with vestments and liturgical articles brought from Germany. Army transmitters broadcast Orthodox services to populations which had not heard a Mass in years. As a result, many Soviet citizens greeted the Nazis as liberators.

Stalin got the point. Just before the Red army's winter offensive of 1943, he offered concessions to the church in exchange for its solid support of the war effort. The Patriarch Sergei of Russia—whose persecuted predecessor had only 25 years before sworn the Communists would "burn in hell-fire"—at once announced prayers "for our divinely protected land and its authorities, headed by its God-given leader."

By its appeals to the people's patriotism the church greatly aided the Kremlin in World War II. Now it is aiding the Kremlin in the cold war. The Russian Church often acts as a handy mouthpiece for Soviet propaganda. In recent years it has attacked the Vatican, the U.S. and various Western nations as warmongers, and it has called on all believers to participate in the Soviet-inspired Stockholm Peace Campaign. The Korean War found the Patriarch of Moscow protesting to the U.N. Security Council against "American aggression." "The Russian Orthodox

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RUSSIAN ORTHODOXY^{*} CONTINUED

Church," wrote the Patriarch, "decisively condemns this interference and the resulting annihilation of the peaceful population of Korea by American aviation."

The Kremlin also uses Russian Orthodoxy as a sort of cat's paw in all the areas that have Orthodox churches. The Russian prelates gladly cooperate in this because for centuries they have chafed at the seniority given to the Patriarch of Constantinople by Orthodox groups in general. Patriarch Alexis of Moscow, backed by ample funds, is trying to seize the leadership of Orthodoxy from Constantinople, a move which would be of tremendous service to Soviet ambitions in the Middle East. The Russian Church has not only provided lavish junkets around the Soviet Union for Orthodox representatives from all over the Middle East but has also tried to influence church elections there by supporting prelates who would favor Moscow.

The fierce struggle for leadership within Orthodoxy itself is accompanied by a complex jockeying with both Protestantism and Roman Catholicism. This was especially apparent in late August when the Central Committee of the World Council of Churches met on the Greek island of Rhodes. The World Council, which is largely Protestant, was formed in 1948. Russian Orthodoxy refused to join the Council, denouncing it as a facade for Western imperialism. But 11 Orthodox churches did join, including the four historic Patriarchates of Constantinople, Alexandria, Antioch and Jerusalem.

Change of tactics

NOW the Russians are changing tactics. They sent observers to Rhodes, the first time Moscow has so recognized the World Council, and asked the Council to send a top-level delegation to Russia next December. Metropolitan Nikolai, the Moscow Patriarch's foreign minister, sent a warm message of "sympathy and good wishes" to his "dear friends and Christian brethren" at the Central Committee session. The Metropolitan hailed the World Council for its "fight against social untruths" and its "struggle to stop nuclear weapons tests."

The World Council's general secretary, Dr. Willem Visser 't Hooft, cheerfully told the Rhodes meeting: "The Russian Church is at the moment in the process of discovering the World Council. If all goes well, it will mean that our relations will develop with churches in Bulgaria, Yugoslavia, Romania and Poland." If all the Orthodox churches that Moscow dominates do join the World Council, they may well try to enlist wide Protestant backing for Soviet views in every part of the globe.

The Roman Catholics also sent a five-man group of observers, headed by a French priest, to the Central Committee session. Knowing the great interest aroused in non-Roman churches by Pope John XXIII's call for an Ecumenical Council in 1961, the Catholic group held a long discussion with some of the Orthodox leaders gathered for the Rhodes meeting, including the Russians. The Catholics emphasized that the Pope would invite only members of his own church but suggested that a special meeting of Orthodox and Roman Catholic leaders might soon be held in Venice to discuss theological matters. This disturbed some Protestants, who want Orthodoxy to lean much closer to Protestantism than to the papacy. Dr. Franklin Clark Fry, president of the Lutheran World Federation, called it "a major scandal" that the Orthodox and the Catholics had talked to each other during the Rhodes meeting. But Orthodox churches in general are pleased to be courted by both.

In the U.S. itself, which has 2.5 million Orthodox believers, the main struggle involving Orthodoxy is between those who accept and those who reject Moscow's control of their church. Only one small Russian Orthodox group in the U.S. accepts the jurisdiction of Moscow. The Russian Orthodox Greek Catholic Church of America, with its 755,000 members, says it will continue to refuse the Patriarch of Moscow's jurisdiction until his Patriarchate is free from Kremlin control. The Greeks, the largest single Orthodox group in the U.S., with over a million members, are firm in their loyalty to the Patriarch of Constantinople. There is a sharp clash, however, in some other Eastern Orthodox groups in America, notably those whose mother churches are in satellite countries.

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RUSSIAN ORTHODOXY CONTINUED

In the marriage of convenience between Russian Orthodoxy and Communism, which partner has gained the greater advantage?

Unquestionably the Kremlin has got the best of the bargain. Although the church's compromise with the Communists has restored to it some of the privileges it possessed under the czars, it has never regained its hold on education and therefore on the youth of Russia. In 1917 Orthodox parochial schools comprised one third of the Russian educational system, and religious instruction was given in every public school. All that vanished with the revolution and has never returned.

The result is that Russia's young people are largely lost to the Orthodox church. "How can anyone believe in all that superstitious nonsense in the age of the Sputniks?" I was asked by a snippy young Communist in Leningrad.

The church itself is partly to blame for its waning influence. It has paid a bitter price for its moral compromise with the state. Over five million Russians have left the Orthodox church of their ancestors for the more austere and less political Baptist religion. The church's political position has also alienated some of the best elements of Soviet society, the countless intellectuals and educated young people who might welcome an alternative to the squalid materialism of Communism.

In Kiev a disabused young believer, a professor of Russian literature, told me: "I'll never set foot in an Orthodox church. In the old days Orthodoxy fought every liberal movement in Russia, from the emancipation of the serfs to the democratic revolutions of 1905 and February 1917. It even excommunicated Tolstoy, that great man of God. Now the church is up to its old tricks again. How can I feel moved by a service which begins with a blessing for the Presidium of the Communist Party of the U.S.S.R.? How can I confess to a priest who, for all I know, might report me to the secret police?"

Nevertheless, many parish priests told me that the young often come to church at crucial moments in their lives: to marry, to baptize their children, to bury their parents.

"We can't expect much more than this," an ancient, white-bearded priest said to me in a village outside Moscow. "The pressures of Soviet society are great. The schools teach the young people atheism, and the Young Communist League ostracizes them if they come here. Still, many don't entirely break their ties with the church. See!" He pointed to a line of young couples waiting with their babies by the baptismal font. "When they're older and wiser they may find God in their hearts and come back to us completely."



RUSSIA'S PATRON SAINT, Saint Vladimir, is memorialized in statue in Kiev. He converted Russians to Christianity in 988.



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Clean-cut kids in Bedroom Farce

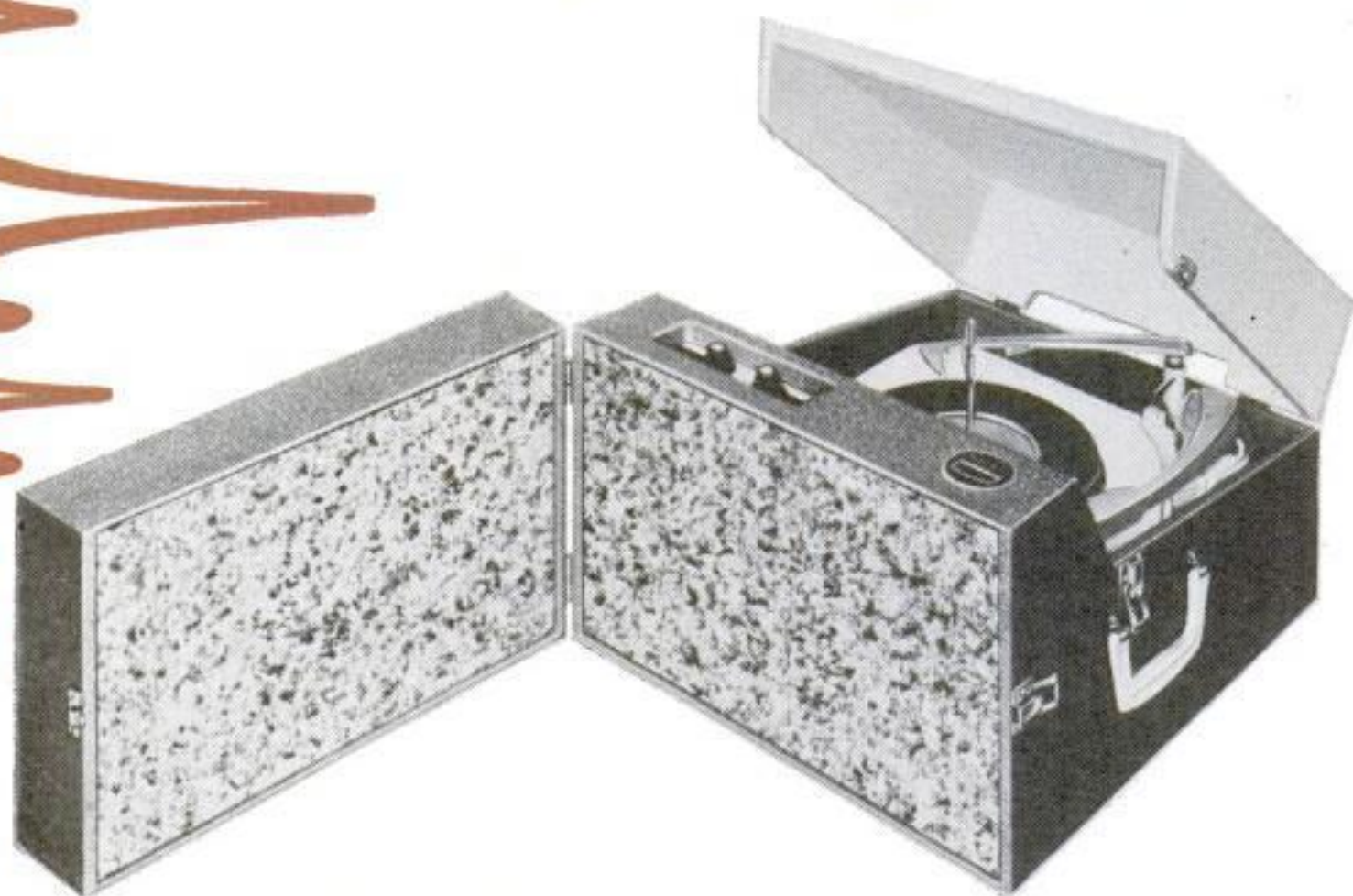
To the censors who watch every move Hollywood movies make, a bedroom farce is a step out of line. But if the actors doing the bed-hopping are a couple of the cleanest-cut kids in the industry, that's a point in rectitude's behalf, and the product is—morally—unexceptionable. The newest product of this kind is *It Started with a Kiss* (M-G-M), and the players inside are Debbie Reynolds and Glenn Ford. If the movie were consistently funny it would be first-class farce. And if it were any racier, Debbie and Glenn could be drummed down from their moral perches.

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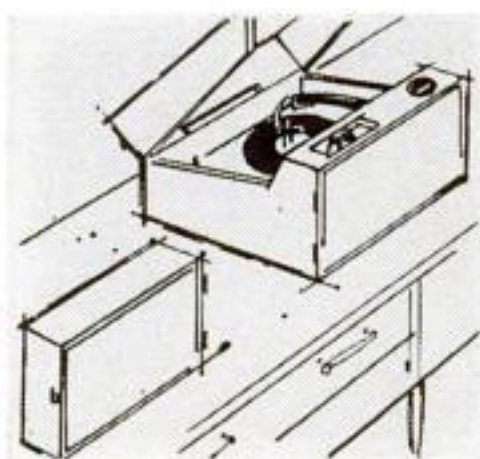


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BEDROOM FARCE CONTINUED

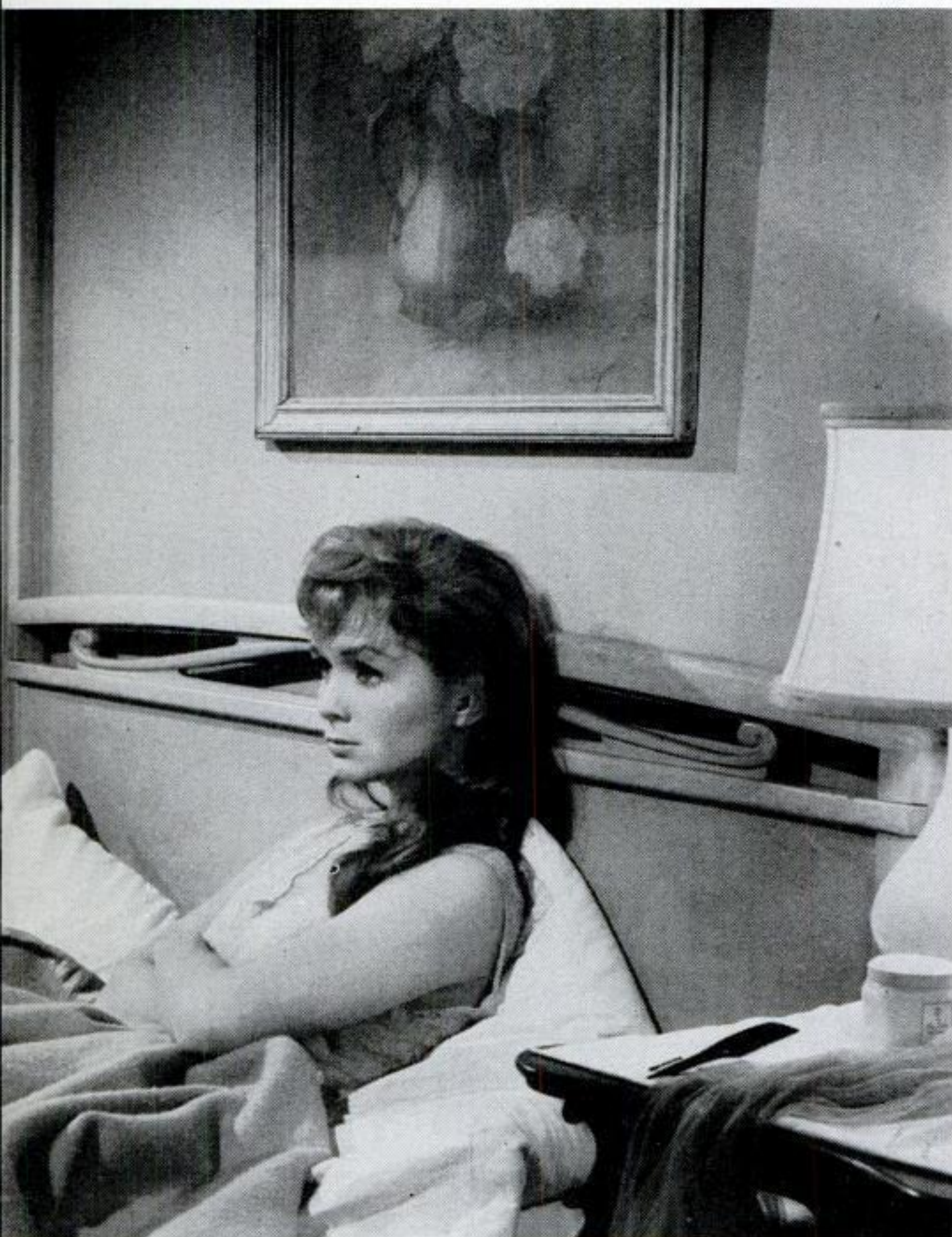
The airman's platonic bride



BANISHING HER HUSBAND, Debbie tells him that he must sleep on the sofa. "I may cry a little during the night," he says, "but I won't bother you."



who winds up in wrong bed



DISCOVERING STRANGE BEDFELLOW, reconciled bride screams on finding she has crept into general's (Fred Clark) instead of her husband's bed.



Which skin problems
do you "put up with"?



☐ Ammonia diaper rash



☐ Shaving Chafe



☐ Itches and prickles



☐ Underarm chafing



☐ Friction diaper rash



☐ "Perspiry" feet



☐ Burning feet



☐ Girdle chafe



☐ Heat rash

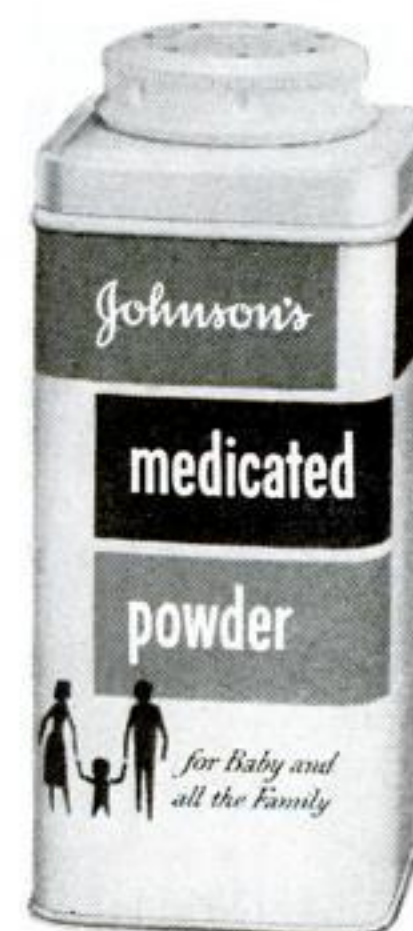
Get sure relief! Get the powder
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Johnson's Medicated Powder—with two antiseptics—offers truly effective relief from *all* these skin irritations.

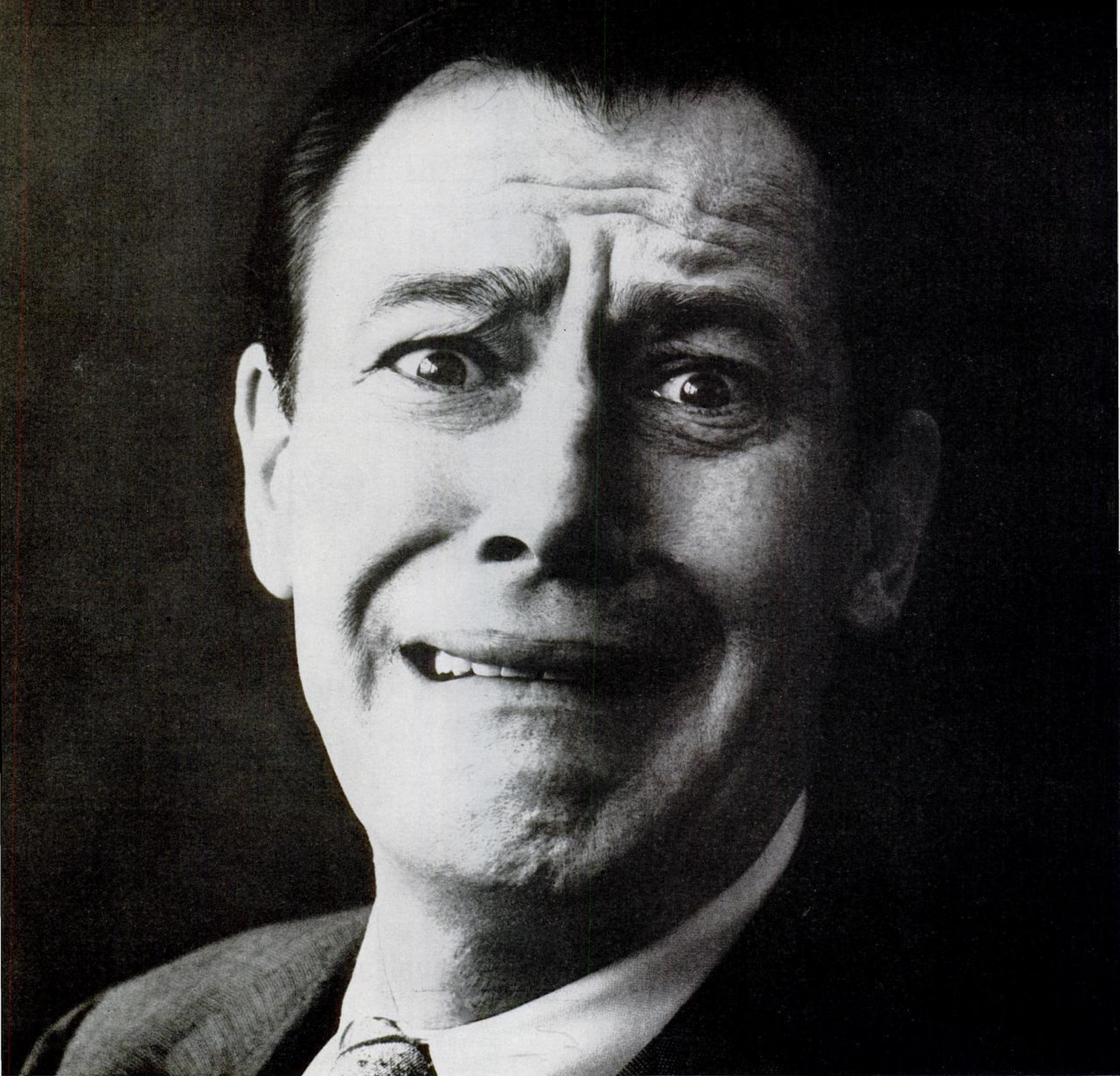
Johnson's "dual-antiseptic action" destroys more kinds of harmful skin bacteria than other medicated powders—promotes healing *instantly*. Regular use *prolongs* protection for hours.

Extra-absorbent formula. It quickly dries, soothes and freshens. Silky, pleasant, safe even for sensitive skin.

Be sure to get Johnson's for your family. Tests prove it's the *most effective medicated powder* you can buy.



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Johnson & Johnson



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¶ State Farm members save \$12, \$30, as high as \$125 a year compared to what many people pay.** We keep our rates low by aiming to insure careful drivers only. Yet you can't get better protection or faster, fairer claim service. Can you qualify? Four out of five average drivers can. See the friendly, capable State Farm man in your neighborhood. Look under "State Farm Insurance" in the Yellow Pages. **STATE FARM MUTUAL** Automobile Insurance Company...world's largest. Home Office: Bloomington, Illinois



*Based on Case No. 15261, details on request.

**In Texas, substantial savings have been returned to eligible members in the form of dividends.

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MY FOUR YEARS IN A CHURCH ATTIC



LIM'S HIDEAWAY beneath the church's low attic beams was ingeniously outfitted with a bed made

from old pew cushions, a radio he brought with him and neat stores of useful items collected in building.

CHINESE STUDENT TELLS OF HIS SELF-EXILE

Four years ago Chheng Guan Lim, a University of Michigan student, vanished. Lim's family in Singapore heard nothing from him. Neither police nor immigration authorities could find him. Last week Lim was discovered hidden in an Ann Arbor church attic. He gave this account of a hermit's life to *LIFE's* Detroit correspondent, Richard Anthony, and revisited scenes of a self-exile.

by **CHHENG GUAN LIM**

MY parents were very happy for me when I left Singapore for Albion College in Michigan in the summer of 1951. My father was a teacher, and he and my mother had gone to much trouble to get money for my education and that of my two sisters and older brother. Father mortgaged the house and mother took in sewing.

My marks at Albion were good and in the fall of 1952 I transferred to the University of Michigan. My first love was criminal law but my parents didn't favor this, so I had selected engineering as my major.

In my first semester I got a D in mathematics and I had to take the course over again. Foolishly I also took another math course. I made a B in the course I took again but in the advanced math course I did poorly. In the fall of 1953 I did the same thing: I did well in the course I made up, poorly in my other math course. By the spring of 1954 I was quite a mess scholastically and began a transfer to literature, science and arts.

I was also a mess financially. At Michigan the Wesley Foundation, a Methodist organization, sponsored my room and board and I paid my tuition by working summers in a factory that made air conditioners. But in the summer of 1954 I couldn't find work. I sold a camera

and managed to get by until the spring of 1955. Then my money ran out.

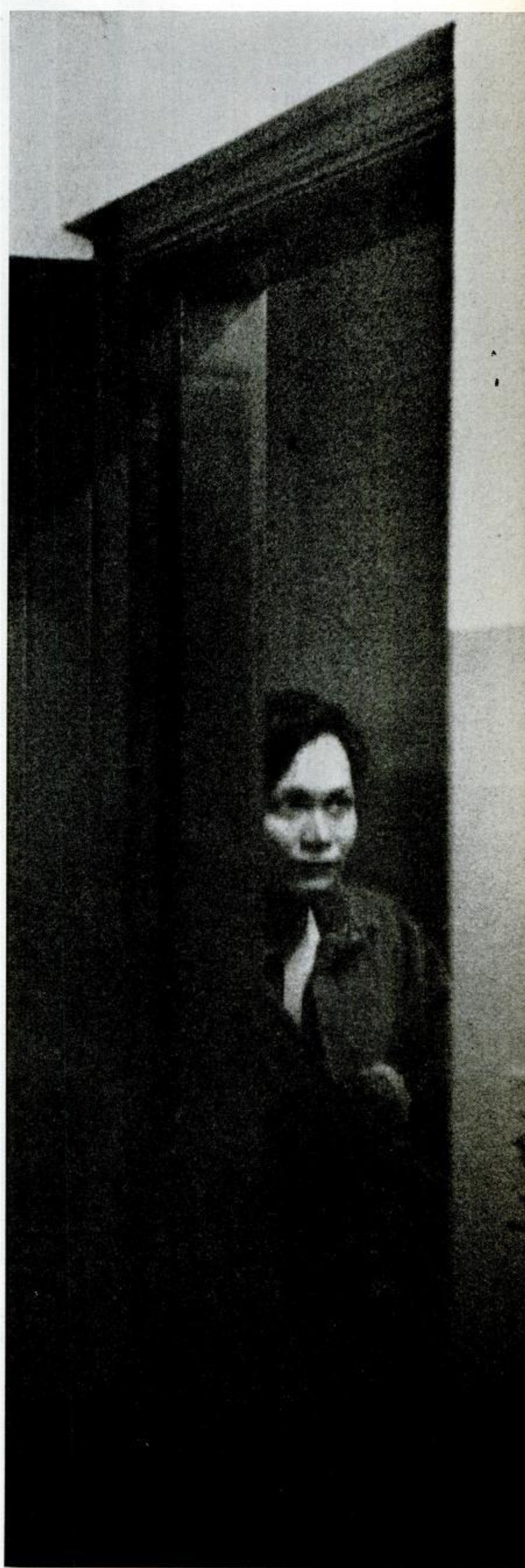
I didn't feel I had any right to ask my parents for more money. I felt that I should have had better grades—and would have if not for my own foolishness in taking those math courses.

Because of my poor grades and my financial difficulty I dropped out of Michigan in the spring of 1955. Now I was living a lie.

Although I had dropped out of school, the Wesley Foundation was still paying for my board and lodging. My terror at taking money under false pretenses grew and grew. Added to this was my fear of the U.S. immigration office. I had violated my student visa by dropping out of school and by law should have returned to Singapore. Worst of all was the fear of hurting and humiliating my parents. They had had high hopes for me. I could not face the fact that because of me my parents and friends had to suffer.

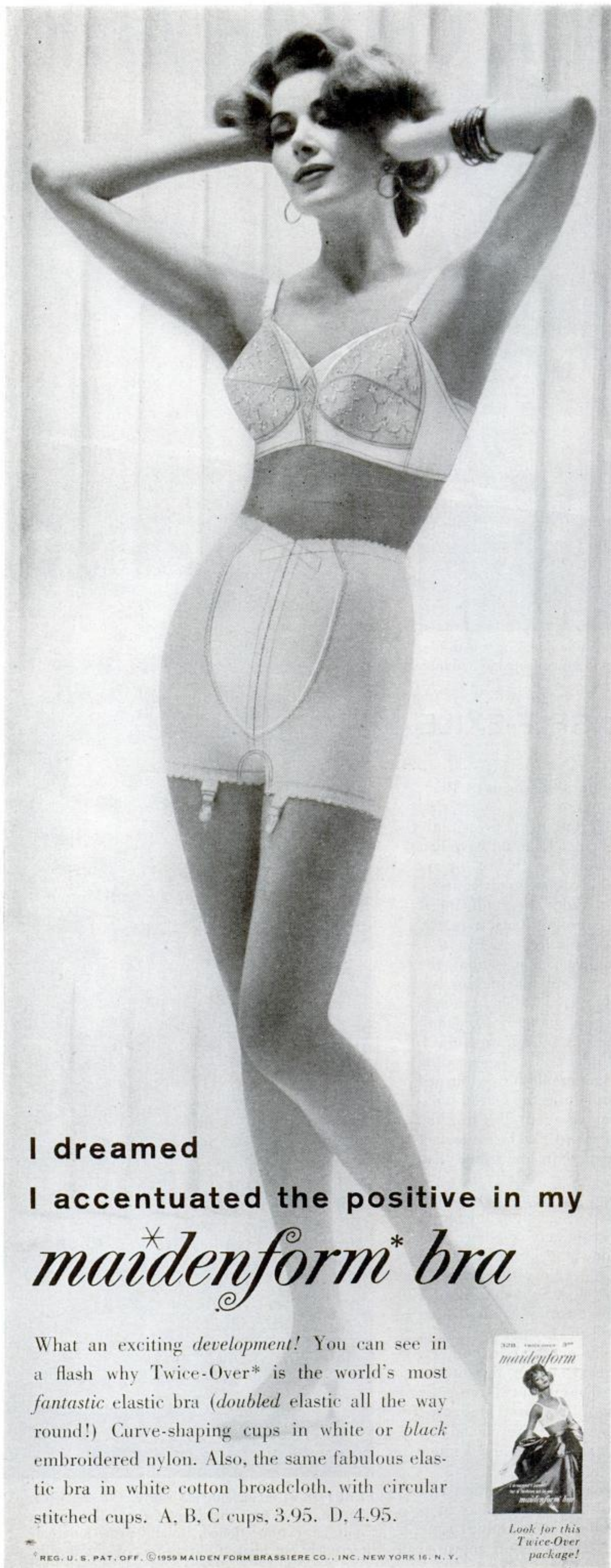
I continued to accept the foundation's money that semester and through the summer. A terrible aching fear became my constant companion. At last I became panicky. All I wanted to do was run and hide from the people I knew. In the second week of September 1955 I left my rooming house in Ann Arbor, taking only the clothes I wore and my portable radio. I didn't know what to do or where to go. For a time I slept in the railway station, then in the arboretum and finally behind the stage in the basement social hall of the First Methodist Church. I was a member of the church and had helped with church maintenance and I knew its interior quite well.

I came out of the church for the first and third football games of the season. I like football very much, and I remember that third game was Army-Michigan. The last time I appeared



FEARFUL at facing outside world, Chheng Guan Lim, 28, peers past the door of the police station where he was questioned. He still wears long hair he crudely cut himself during four-year self-exile.


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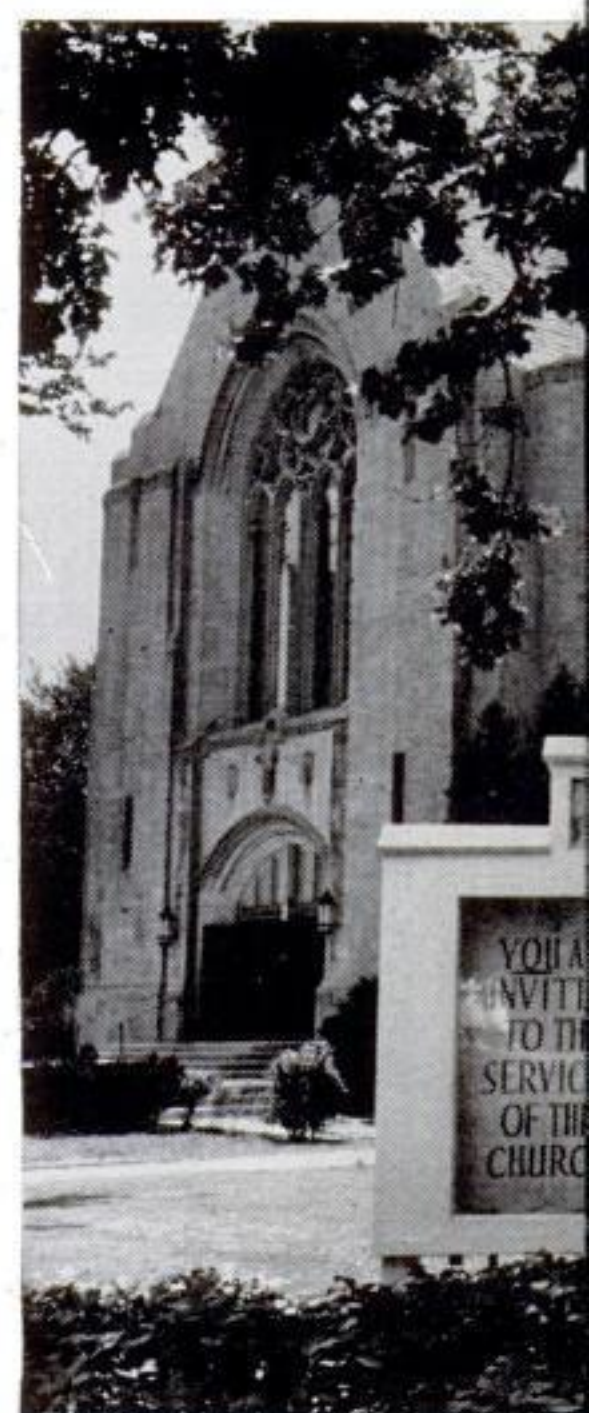
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I accentuated the positive in my
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HERMIT'S WORLD was the First Methodist Church (center) which he prowled during solitude of night. In deep sink at left he took laborious baths.

YEARS IN ATTIC CONTINUED

in public was the Sunday after the Army game. That night I went back to the boarding house to pick up my mail and received my last letter from my father and my sister.

After that night I left the fellowship of other humans. My fear and humiliation had overcome me. I continued staying behind the stage in the church, but I learned this was no place to hide. I remember once there was a meeting of the Women's Society of Christian Service. For two hours there were at least a dozen women within five feet of me. I could not move or scratch myself, and I was in constant danger of sneezing because of all the dust behind the stage. That afternoon there was a Cub Scout den mothers' meeting, and I could hear the women reciting the pledge of allegiance and singing a song that imitated the buzzing of bumble bees.

I knew I would eventually be discovered if I stayed behind the stage any longer. Then I thought of the loft.

By the time I moved upstairs I had been in hiding several months and had begun to gather a few essential possessions from various places around the church. Although spring was now starting it was very cold in the attic. I spread a paper and a piece of rug on the wooden floor. I slept on this bed all summer and fall. As the weather became colder the second year, I made a tent from two blankets and ran an extension line into it with a 200-watt bulb to keep me warm. My feet, which stuck out of the bottom of the tent, stayed cold unless I drew myself into a crouching position. As the second spring approached I added to my living quarters a pair of old-fashioned pew cushions stored in the attic. From then on I had a softer bed.

In the winter of 1957-58 I expanded my tent with another blanket, giving me a structure six feet long. My feet were no longer out in the cold, and I also added another light bulb to keep them warm. Finally last winter I insulated the tent walls with a lining of aluminum foil.

The first summer was a cool one, and the second summer not too bad. The attic was shaded by two large trees which kept it from getting too hot. That first year I even ventured out to sun-bathe on the flat roof between the peaks of the two main church buildings. I did this only two or three times because low flying planes scared me off. Thereafter the only sun I had came through the frosted window at the end of the loft.

In 1957 the two trees were cut down to make a parking lot, and the summer heat became almost unbearable. To cool myself I fanned my body with paper fans and constantly wiped myself with a washcloth. As I sweated I became itchy and very uncomfortable. I got a soap carton and lined it with newspaper, leaving a small insulated hole in the center. I kept ice cubes in it and they helped dissipate my thirst. But even with these aids I felt very, very hot and sweated constantly.

Since I had occasionally helped with church maintenance and locked up the church one night a week, I had a master key. But the



Farthest he ever ventured outdoors was to church playground on moonless nights where, worried that his muscles would atrophy, he chinned himself.

most important rooms for me were unlocked anyway. I didn't need a key to enter the bathroom or kitchen, and I knew where to find the key for the students' cooperative kitchen.

The first two years the church held a potluck supper every Wednesday night. The good ladies always brought in Spanish rice, baked beans, spaghetti, meatballs, gelatin, homemade pies and cakes, and quite often forgot to take back the leftover food after the meeting. Wednesday night became my feast night.

Most other nights I raided what was left over from other church group dinners and from the cooperative dining room run by students of all religions and nationalities. Because of the inexperience of the co-op cooks, especially with rice and spaghetti, there was often an enormous amount left. From these two kitchens I had enough to eat.

But like all good things the potluck dinners came to an end. The church changed to meals prepared outside. Sometimes there would be no food left over in either kitchen and I would go hungry. My longest period without food was three days, but I never thought of leaving because of hunger. You get used to it.

In the first six months I wore out the seat and knees of my trousers, and the seams gave way on my checkered wool shirt. The church has a biannual clothes drive for refugees and I was able to pick up T shirts and pants that way. Shoes were a problem, especially in winter after I had worn holes at the toes and soles of my one pair. I made short wooden stilts to keep the snow out of my shoes when I crossed the flat roof to get from the loft to the main church building, but they didn't work and my feet would quickly get very cold.

I felt my body would not function properly unless it was given things to do. I did knee bends and push ups and skipped rope in the church basement. But the worst thing for me was not the confinement, the heat or the cold, or the food. It was the emotional strain.

I remember vividly my first Christmas up in the loft. I heard the organ and joyous songs and carols. I wanted to go out and sing with the carolers when I heard "Peace on the earth, good will to men," but I knew I had no peace myself, and I thought that was perhaps because I had no good will. I cried. Nobody was saying Merry Christmas to me. I was all alone.

As the months passed I became afraid of losing my voice. I would go down to the storage room near the social hall and pick up a song book and sing as loud as I could. Often I would read poems to myself. I tried to improve my diction and pronunciation. Once or twice I actually screamed, just to release the tension I felt.

One spring I heard little children playing next to the building. Then I heard one of them cry, and there was a great urge within me to comfort this child and say, "What is there to cry about?" I thought if I had not been in this mess this child could be my own, but because of my foolishness I had lost many years.

Like many Chinese people I seldom have to shave—I use tweezers for excess facial hair. In the church I used two pennies clamped

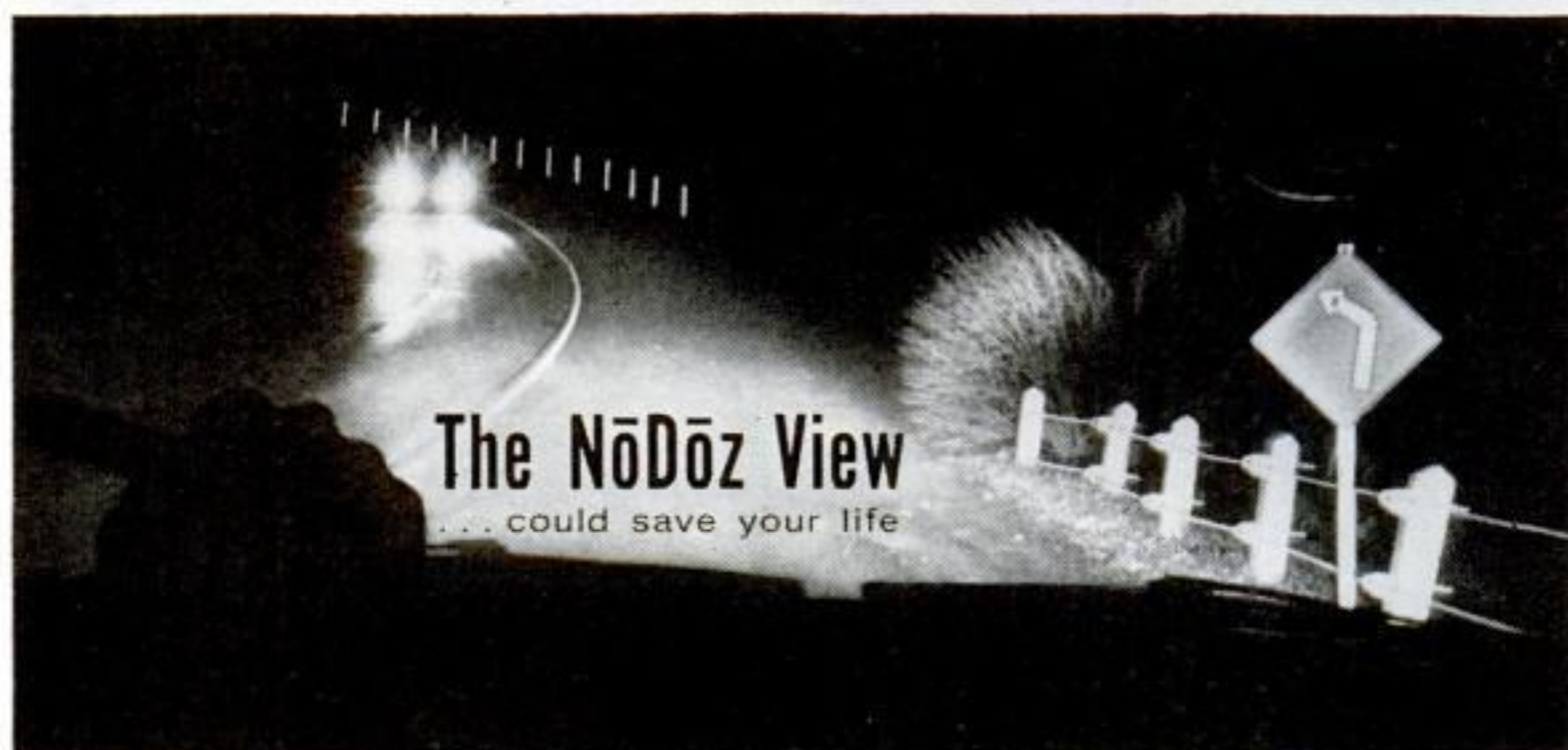
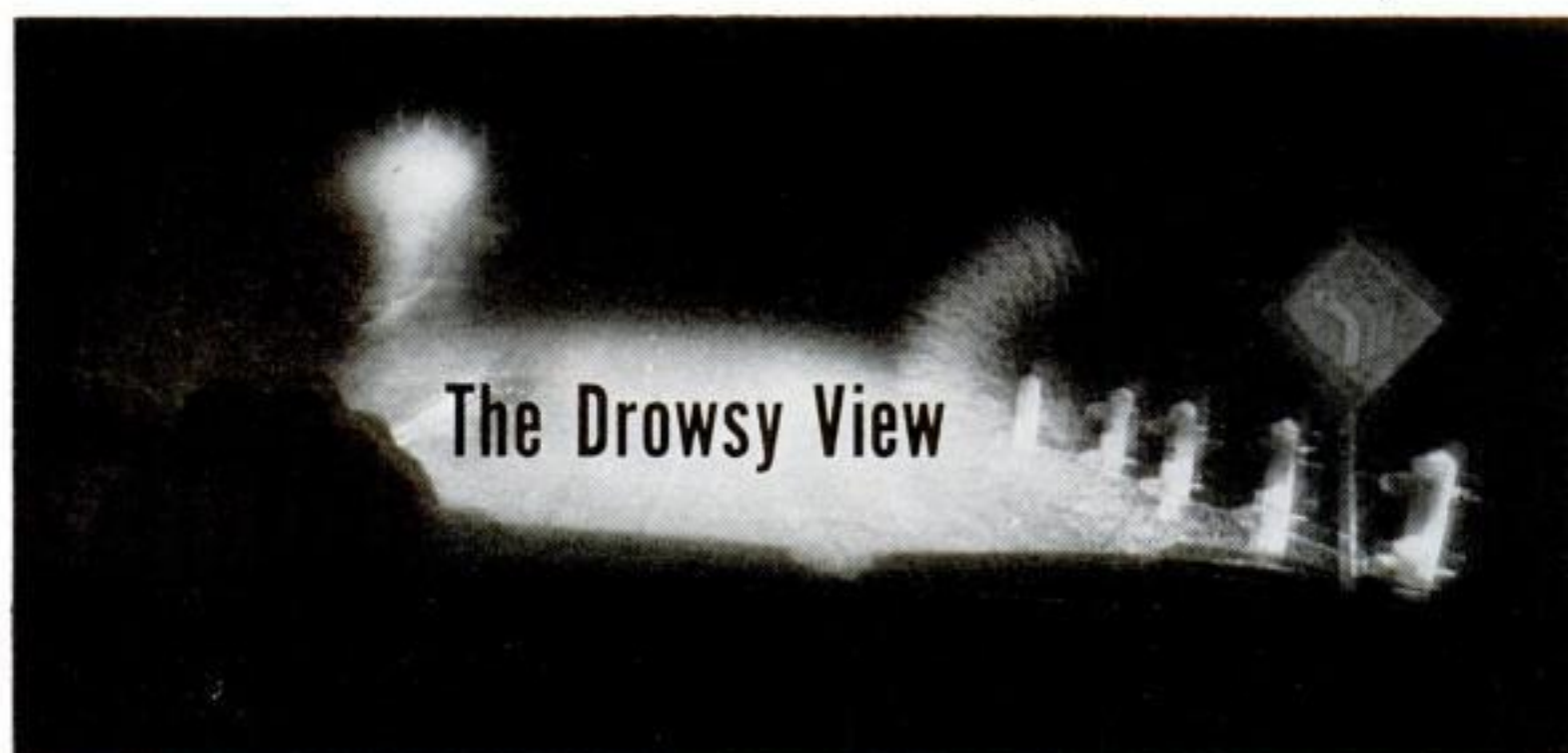
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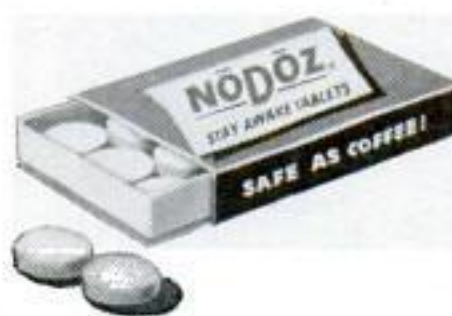
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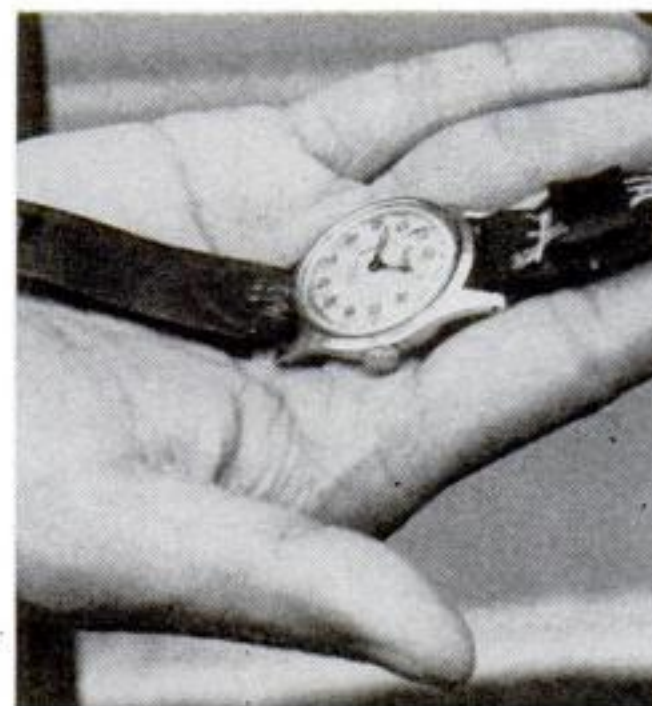
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RELICS OF EXILE are battered watch which registered monotonous passage of time and stilts made to keep winter snows on roof out of worn shoes.

YEARS IN ATTIC CONTINUED

together. As my hair grew longer I found it very hard to keep it clean and out of my eyes. I cut it with a pair of large scissors I found in the church, using a mirror in the kitchen. I did the sides first, then I would lie down on a table and let the hair fall straight back, cutting it with my arm behind me. It would take a couple of days to do a neat job.

For a toothbrush I used the ends of kitchen matches, and for toothpaste I used baking soda. I didn't like the taste but it supplied the necessary abrasive. I scrubbed myself in the washroom and tried to bathe in the deep sink, but it was very hard work.

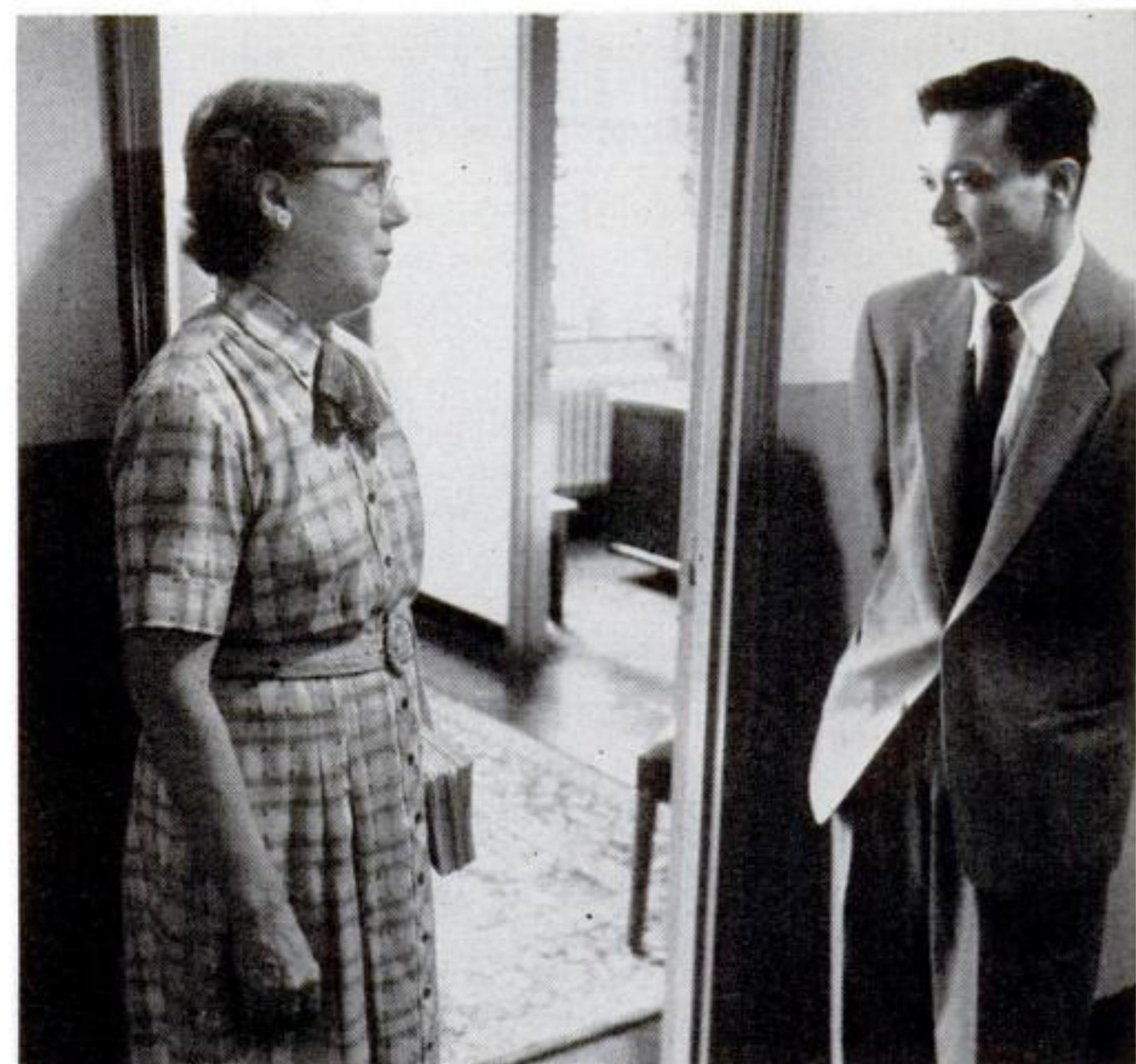
One of the things I prized most was my watch. When the police asked me why I needed one, I told them time is all you have when you are alone.

The radio I had brought with me was a great help, although the summer heat melted the wax from the coils and condensers and I often had to repair it. The radio was my only link with humanity. I listened to three or four newscasts a day and rooted for Michigan during the football season and against the Tigers during the baseball season. The Tigers annoyed me because of their optimism. Each spring they said this was the year, but it never was.

The church library is large and well supplied with magazines and I read them often, but when I read a short story I looked to see if the ending was sad. If it was, I didn't finish the story. I also tried to follow the lives of certain people in *LIFE* and *TIME*. I followed Princess Margaret because she did something I doubt I could have done—giving up love for duty. I followed Winston Churchill because he was so positive in all he did. And I followed Marilyn Monroe, because, well, because she's a dish. I also picked up pictures of church activities which I found in the lounge and wondered who this man was, or that woman, and how many children they had.

Over the years I became more and more careless. I can't remember

CONTINUED



ONLY ONE TO SEE LIM during years in church was Secretary Miriam Green, who glimpsed him once. Lim discusses here plans to return to college.



SPRAY ON A SHINE IN JUST 10 SECONDS!

SAME CAN SHINES BROWN SHOES—BLACK SHOES—ANY COLOR SHOES

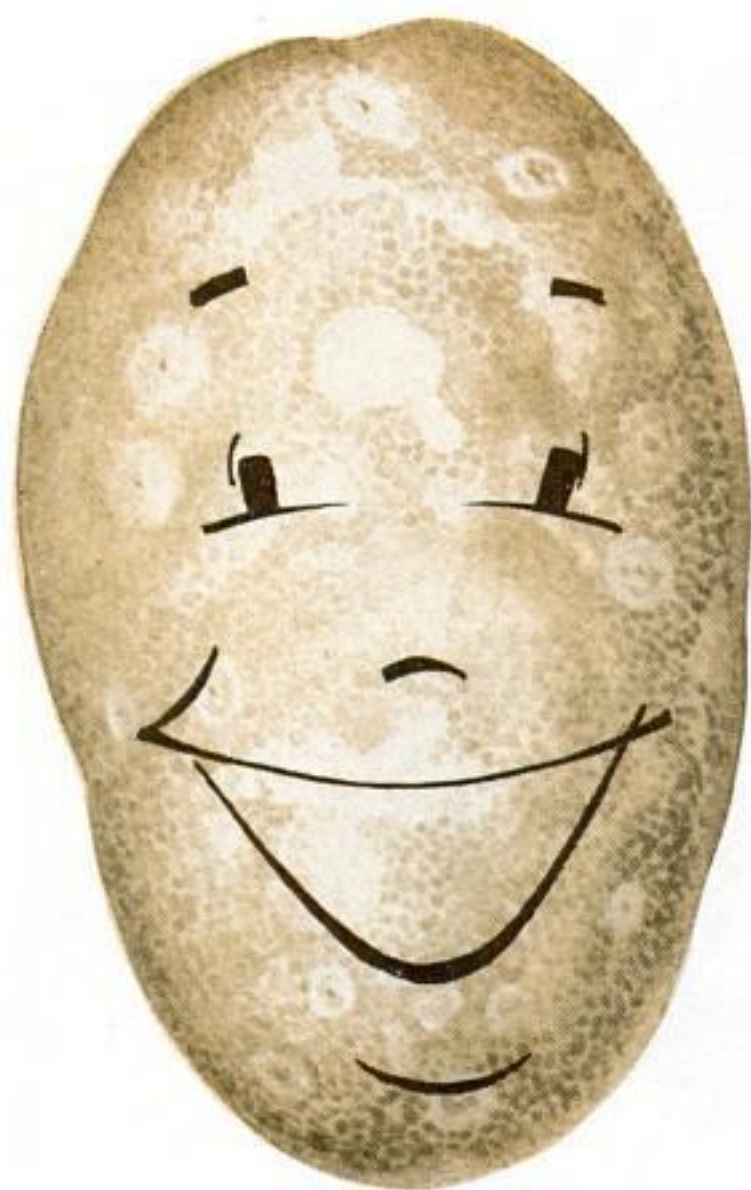
Imagine! Spraying on a gleaming long-lasting shine on your shoes in only 10 seconds! It's really that fast and easy with new Penny Shine. No brush—no mess—just spray. The shine goes on to stay. One can serves as a "shoe shine boy" for months for the whole family. Penny Shine is rich in lanolin and silicones which means it won't crack leather—it actually lets shoes breathe. Try it! You'll never shine your shoes any other way again. Ask for Penny Shine at super markets, drug, variety and automotive stores.

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beating
by a
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YEARS IN ATTIC CONTINUED

when I first thought someone heard me. But once the janitor came early to clean and wax the floors of the offices. It was 6 a.m. and if he had not made so much noise I would have bumped into him as I came down from the third floor.

Last June the church's executive secretary, Miriam Green, came in extremely early—about 6:15 a.m.—to catch up on work. I had been looking around downstairs and we were only 25 feet apart when she saw me and screamed. Although she knows me, she didn't recognize me. I was terribly scared but I couldn't run. My feet banged on the floor. I can't explain why. But the more she screamed the more I banged my feet. When I got upstairs I just lay there and wondered if they would discover me. It was the only time anyone had seen me. I didn't move from bed all day. But nobody came.

Last week, when I was found, I was filling a water jug in the cleaning closet and I didn't hear the security man enter. He heard me and called the Ann Arbor police. They tried every door and I could hear them coming higher and higher. I don't know why but curiosity made me stand behind the doors on each floor as I retreated. It was before 6 in the morning and I could feel their flashlights following me. In the fire-well leading to the flat roof they saw my door move slightly, but I made it to the loft and lay there under a recess in the framework, scared and trembling.

"Well, I guess there isn't anyone in here," one of them said, but their light was shining on me all the time. I could hear the officer unbuttoning his holster, then he shouted, "O.K., you, come out now." I practically jumped out. I was scared, but once I had my hands up I felt terribly relieved that this had ended and I was found.

I went into the church four years ago a scared rabbit, like a guilty little child hiding from his parents. The little child knows his parents still love him, but he hides. I came out with the worst of the fear wiped away, but still the fear of officials remained.

Two or three days after my arrest I started to see what the world was really like. The immigration people were here to help me. The police treated me with unexpected courtesy. The university and international center showed me a side that is seldom seen by the public. To many the university is a Goliath, but I have found now that it is human and warm, with a heart and soul. Most students think the dean of men is a stern, forbidding man, yet Dean Rea did more to help me than I had any right to expect. An instructor I never knew called on me and asked if he could help. So did the retired associate dean of the engineering school.

These experiences of the last week have helped me change my misconception about people. You have to face up to the truth—to reality. Four years ago I was a coward, but today I have learned to live again.



MEETING BROTHER Chuan, who rushed from Ontario where he is teacher, Lim shyly clasps his hand. On returning to world, Lim found father had died.



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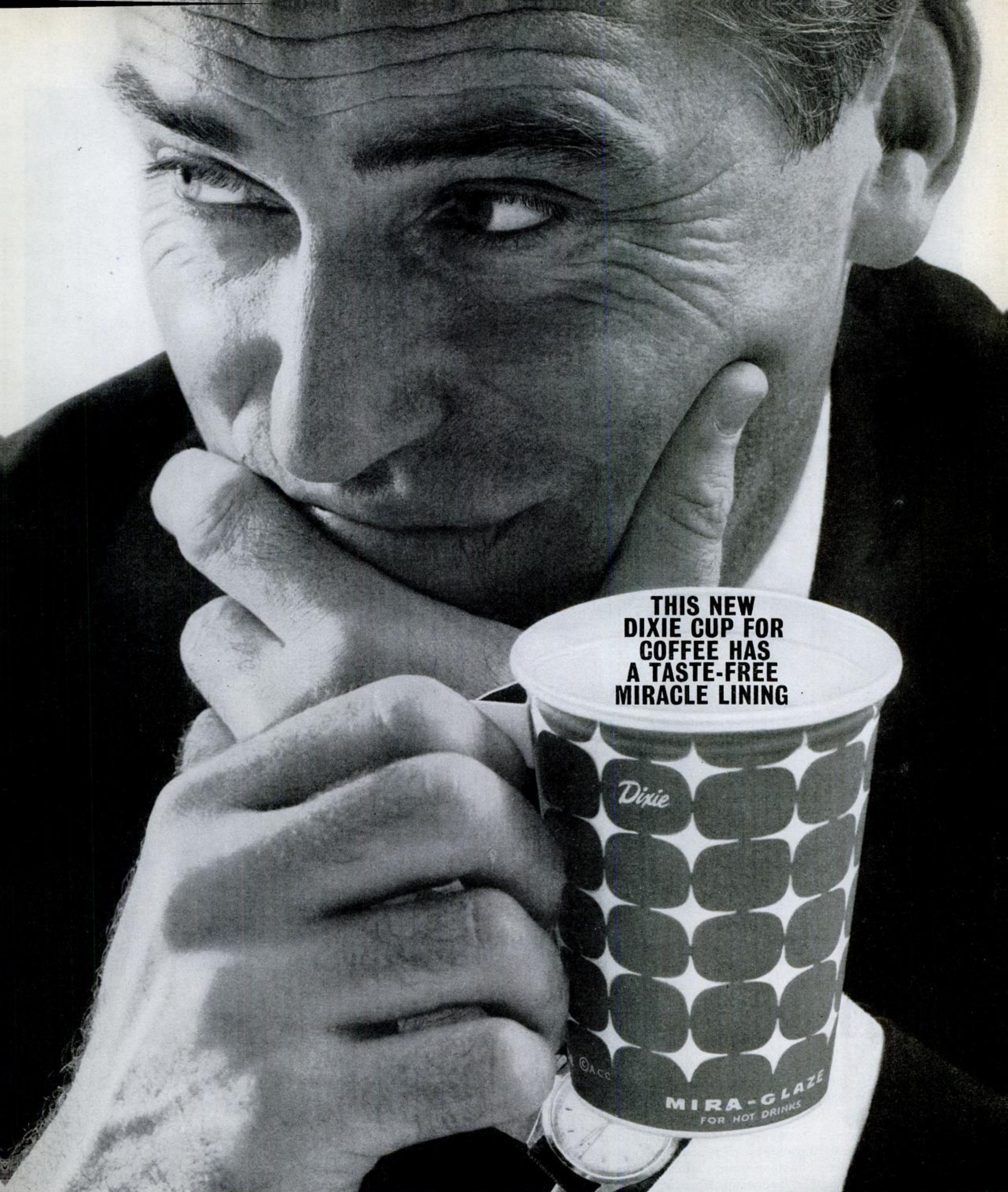
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BOURBON...the king of drinks!

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From native ingenuity it is sprung and the best things of our good earth are in it. The rich heart of choicest corn, rye and barley gives it body. The purest water from deep limestone springs softens it. The white oak cask cradles and gentles it. The languor of American summers sleeps in it. And by an old Kentucky art it is "blooded" with the strain of its ancestry.

This then is Bourbon, the king of drinks! Its soul is a flame that lights it with an amber glow. Its aroma is an incense for your libation. Its taste is

seductive. Its caress awakes the senses to delight. And on this planet there is nothing else that so stoutens the heart and lifts up the flagging spirit.

Pour old Bourbon with reverence, remembering that for thousands of years nature withheld its secret from man. Then sip and thank your stars that you were born in the fullness of time—for the Caesars in all their glory knew no such mead as this.



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Student and Teacher of Human Ways

HOLDING forth at lecture in International House in New York, Margaret Mead rivets attention of assembled summer students.

"I make many of my friends by lecturing. I keep the lectures informal, if I can, with lots of discussion, and I never give the same one twice—I'd die of boredom if I did."

IT'S easier for a woman to go into a strange village than a man," says Margaret Mead. "If a strange man wanders in, the natives are afraid he'll take their wives away, but a woman can work with the mothers and children." Armed with this premise, Anthropologist Mead has been entering native villages on Pacific Islands for 35 years and writing them up in trail-blazing scholarly studies which have also made such good reading that some, like her classic *Coming of Age in Samoa*, have been best-sellers.

Today, as America's best-known woman scientist and a shrewd critic of the natives at home in the U.S., Dr. Mead is in constant demand for TV appearances and lectures. An energetic 58, she works 15 hours a day, constantly learning more about the ways of man and passing on what she has learned to her students. She is on the staffs of New York's American Museum of Natural History and Columbia University. A new

book on cultural evolution and one for children on anthropology are in the Mead works. All the while she indefatigably collects and keeps up with friends all over the world.

Margaret Mead got her intellectual zest from an intellectual family. Her father was a professor of economics, her mother a sociologist. Her grandmother, a retired schoolteacher who personally educated Margaret at home, "was about 50 years ahead of her time—for instance, she taught me algebra before arithmetic." Margaret Mead carries her grandmother's pioneering approach into her own teaching. "I like to find mavericks," she says, "students who don't know what they're looking for, who are sensitive and vulnerable and have unusual pasts. If you do enough work with these students you can often transform their level of contribution. After all, the real breakthroughs come from the mavericks."



MEAD CONTINUED

At New Hampshire home of friends, the Lawrence Franks, who helped her raise her own daughter, she cuddles a Frank grandchild.

"I like to handle babies. You can learn a lot from the way they respond, the way they slide down your hips, the way they trust you. The first thing a child must learn is to trust."

REVISITING Bali, she dandles baby of couple she used in book years ago. Mark on baby's head is potion to ward off spirits.

"Of course no foreigner can handle Balinese children like a Balinese. So you have to be careful not to take too much care of them or you'll alter their whole behavior"



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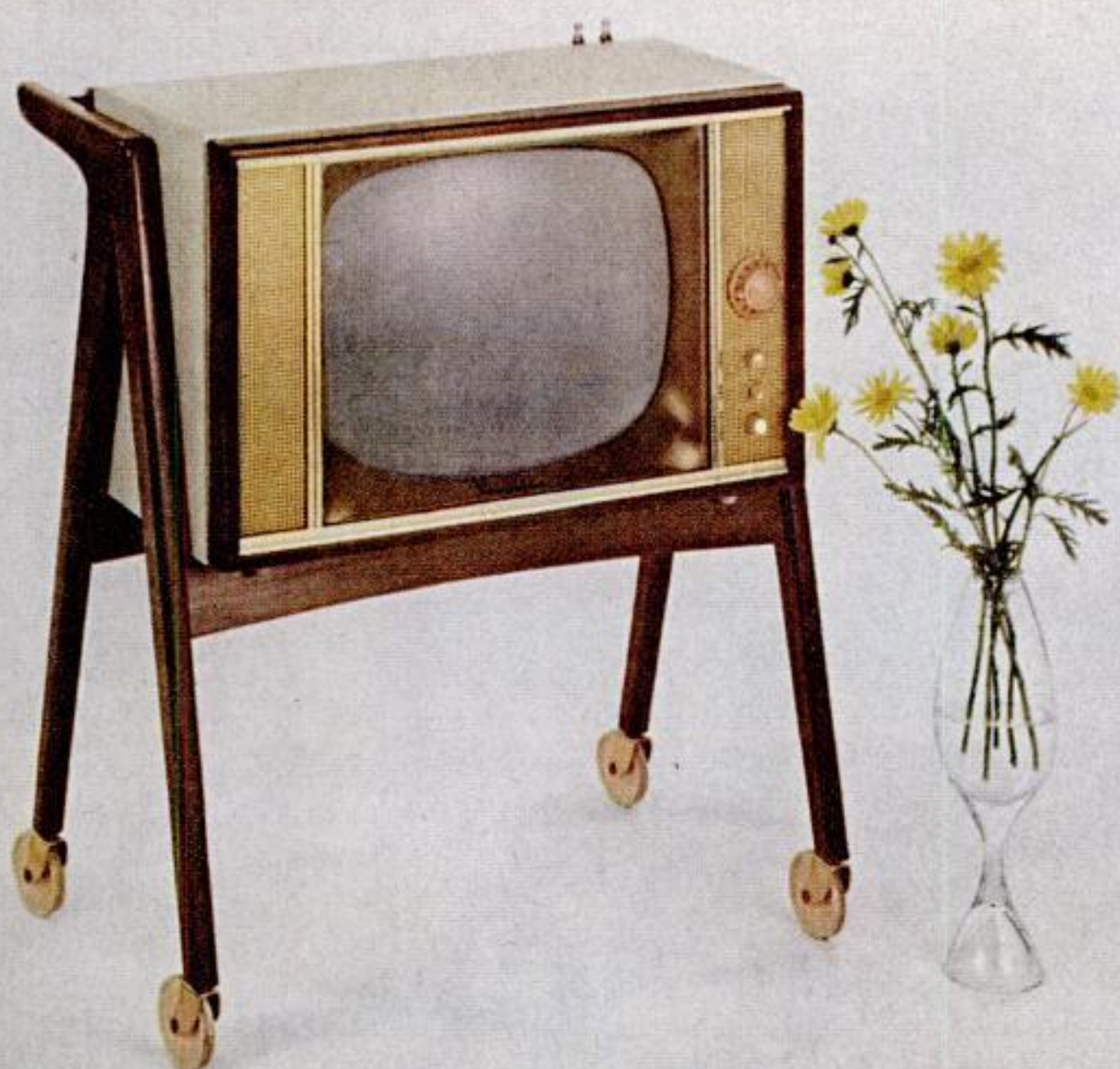
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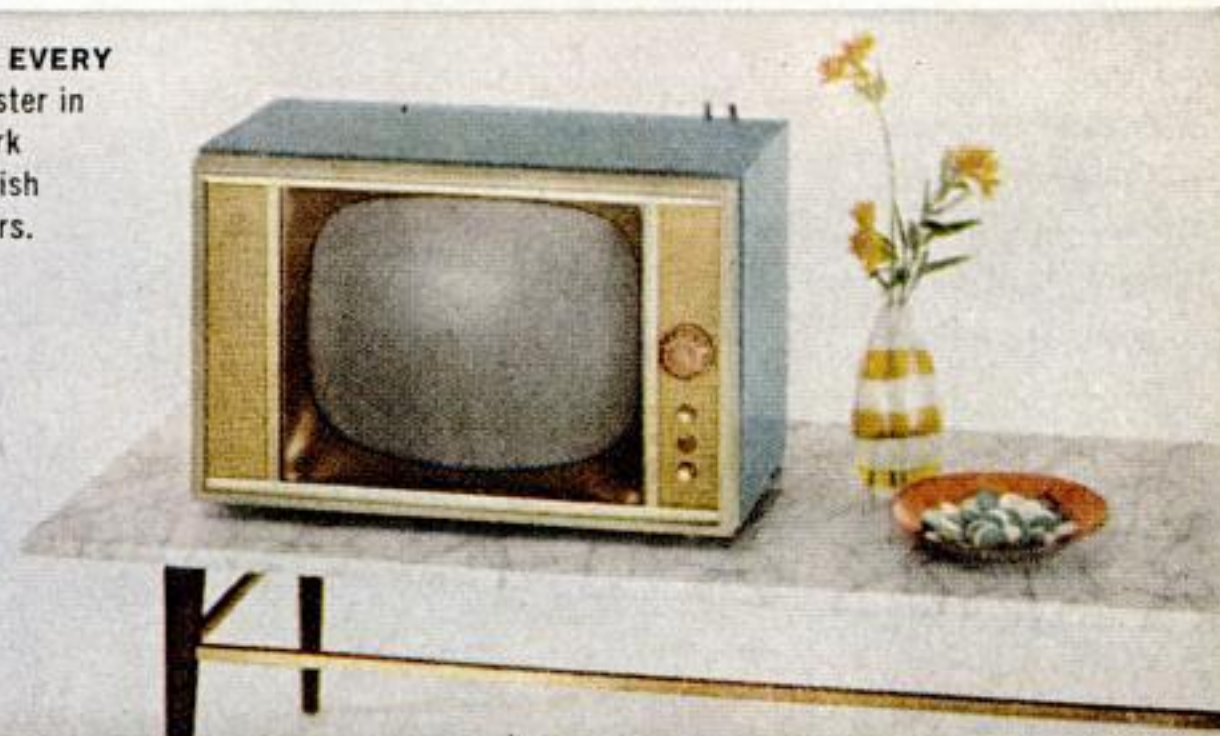
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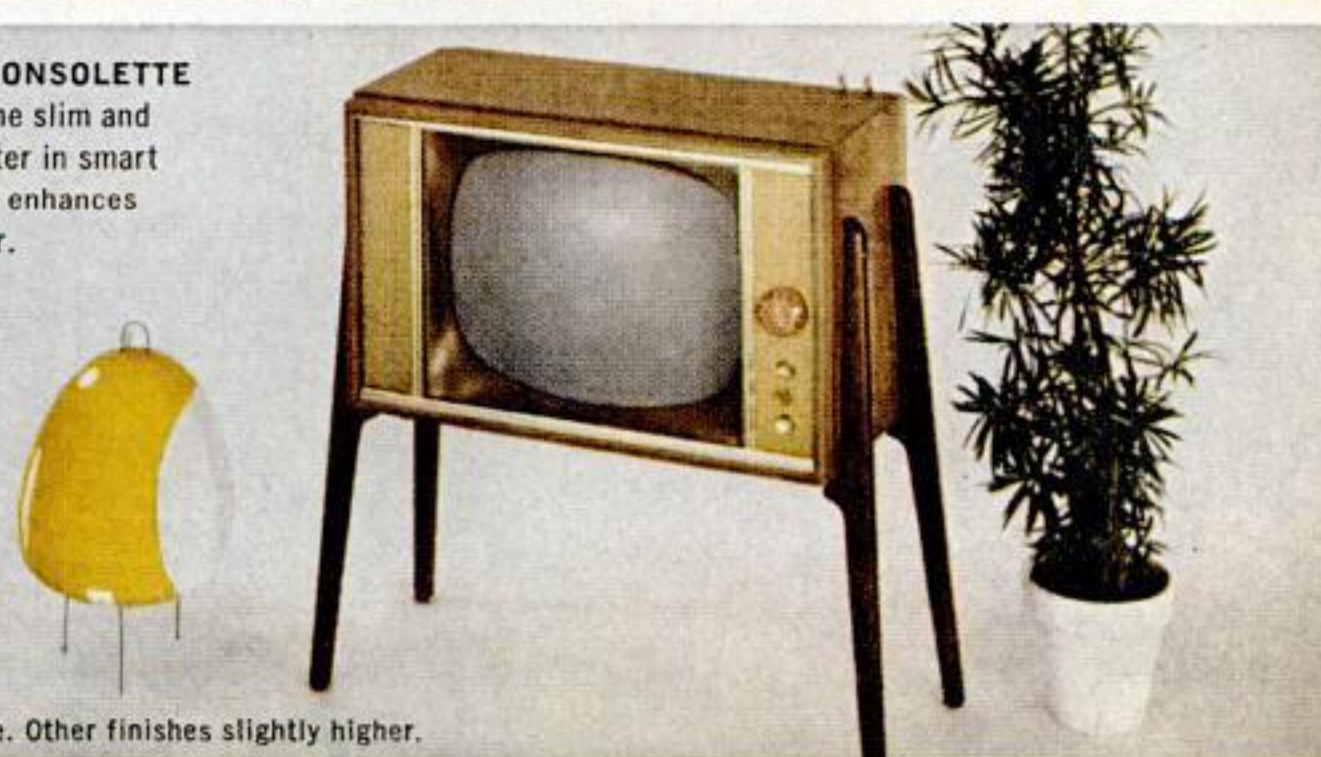


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Meaty Meadisms about America

While she was being interviewed by LIFE Reporter Frances Glennon, Margaret Mead commented trenchantly on many aspects of society in America. Following are some samples.

American mothers: Motherhood is like being a crack tennis player or ballet dancer—it lasts just so long, then it's over. We've made an abortive effort to turn women into people. We've sent them to school and put them in slacks. But we've focused on wife-hood and reproductivity with no clue about what to do with mother after the children have left home. We've found no way of using the resources of women in the 25 years of post-menopausal zest. As a result many women seem to feel they should live on the recognition and care of society.

American fathers: Fathers are spending too much time taking care of babies. No other civilization ever let responsible and important men spend their time in this way. They should not be involved in household details. They should take the children on trips, explore with them and talk things over. Men today have lost something by turning towards the home instead of going out of it.

Mediocrity: What we have today is a retreat into low-level goodness. Men are all working hard building barbecues, being devoted to their wives and spending time with their children. Many of us feel, "We never had it so good!" After three wars and a depression, we're impressed by the rising curve. All we want is it not to blow up.

Suburbia: We're bringing up our children in one-class areas. When they grow up and move to a city or go abroad, they're not accustomed to variety and they get uncertain and insecure. We should bring up our children where they're exposed to all types of people.

Youth: We have refused to recognize the creativity of youth. We don't want our children to write poetry or go to the stars. We want them to go steady, get married and have four children.

Junior high school: Junior high school seemed like a fine idea when we invented it but it turned out to be an invention of the devil. We're catching our boys in a net in which they're socially unprepared. We put them in junior high school with girls who are two years ahead of them. There isn't a thing they should have to do with girls at this age except growl at them.

Leisure: We talk about our high standard of living in this country. What we have is a high standard of work. Usually the peaks of civilization have been periods when a large proportion of the population had time to *live*. I don't think we're doing this today. I think the people who *could* live are still spending their time and supplementary resources on making a living.

Juvenile delinquency: It's going up all over the world, under every system. We've failed to organize our cities in such a way that the whole community takes responsibility for its children. The family alone can do very little to combat this. We've been running away from our civic responsibilities by hiding in a lot of suburban green grass and keeping the undesirables across the track.

Museums: I think all museums should be directed toward 12-year-old boys. They're the brightest group you can find and this is the age when you can arouse their curiosity and interest.

Over-organized children: We're going to have to invent "Jimmy's Quiet Afternoon"—something positive that has as much sanction as Jimmy's Cub Scout meeting.

Friendship: The capacity for friendship usually goes with highly developed civilization. The ability to cultivate people differs by culture and class but on the whole educated people have more ways to make friends. It's sometimes difficult for Europeans who have a common culture and past to understand our kind of friendship. In England, for instance, you find everyone in your class has read the same books. Here people grope for something in common—like a newly engaged girl who came to me and said, "It's absolutely wonderful! His uncle and my cousin were on the same football team."

Solving problems: The first thing you do is *scream*.

CONTINUED

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MEAD CONTINUED



ON dock near Franks' home she joins the youngsters in a session of sitting and minnow watching.

"I do my relaxing in the summer. At the Franks' there are no age divisions and we have always tried to do things which the children could do with us."



DAUGHTER, Cathy Bateson, 19, a senior studying Mideast languages at Radcliffe, explains Armenian word-roots to her.

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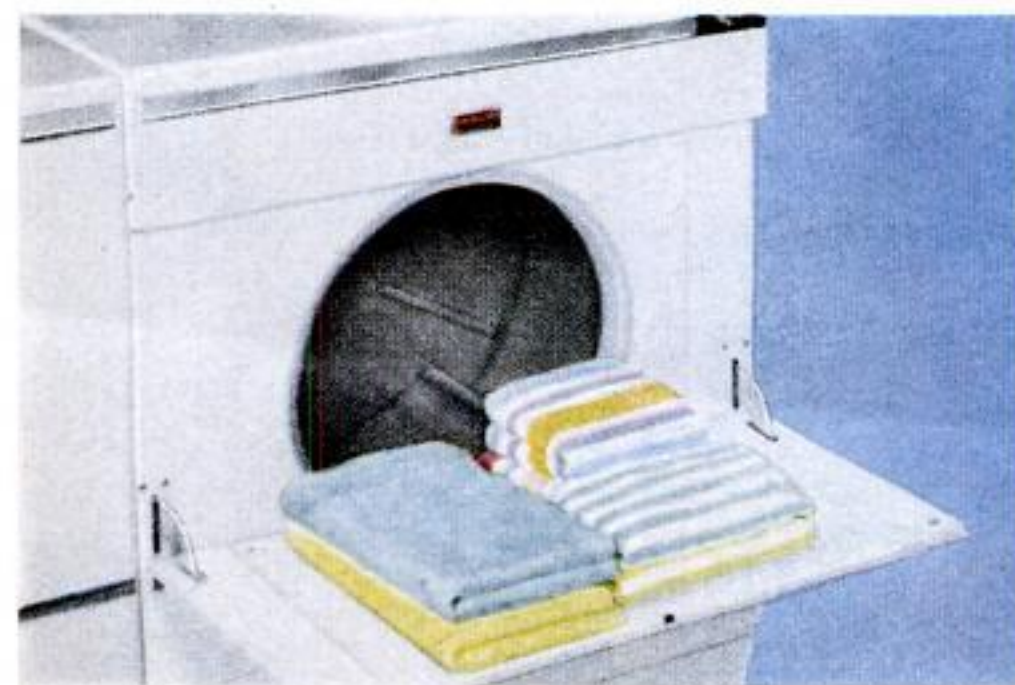
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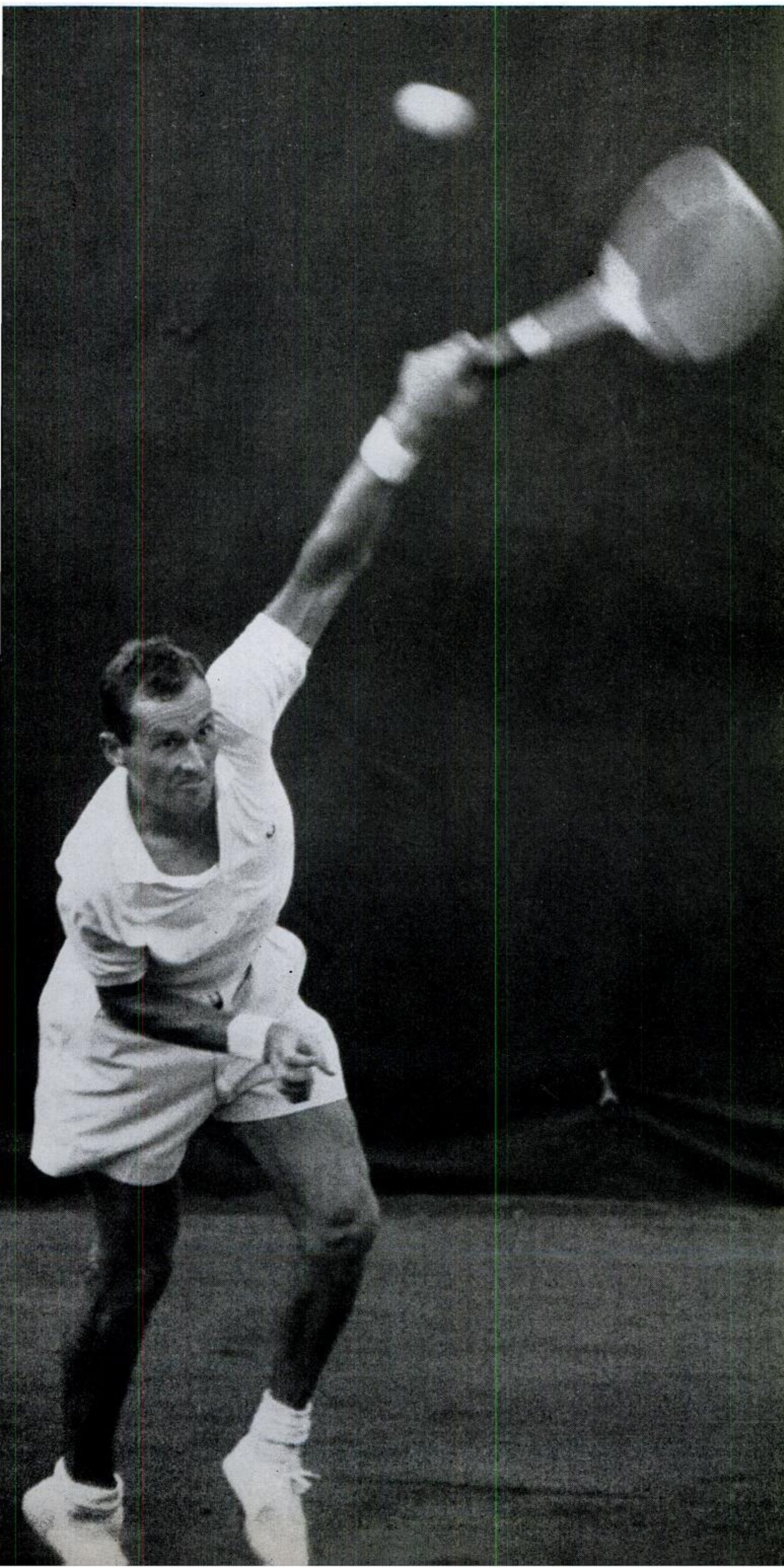
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TENNIS LOSES AUDIENCE



'Big game's' killing serve and volley are the cause; experts propose new rules

by **MARSHALL SMITH**

LIFE Sports Editor

LAST week, with the Davis Cup matches and the U.S. Championships both on display at Forest Hills, it was obvious that something was terribly wrong with bigtime tennis. The pomp and ceremony were there: the courts were green, the flags flying. But one quick glance into the stands revealed an embarrassing number of empty seats. The stadium (capacity: 13,500) was only half to two thirds full.

What had happened to the crowds? Before the Davis Cup was two sets old, it was obvious why people had stayed away. Bigtime singles tennis, 1959 style, was dull. Something was missing. The spectators no longer got that oldtime crick in their necks. There was no reason for them to turn their heads from side to side to follow the ball.

It was not the players' fault. They were playing to win—and winning in big tennis today means playing something called the "big game." It consists of three things: 1) a killing service, 2) a follow-up rush to the net, 3) a put-away volley. Every point is boom, boom, boom. Each staccato burst is over before the spectators can get their heads to turning.

The part of tennis that people appreciate most and applaud loudest—the long and suspenseful rally—has all but disappeared. The delicate artistry has gone out of the game. There are no spectacular duels by "base line artists," almost no mad dashes from corner to corner, few valiant retrieves. There is little to break the monotony of serve-and-put-it-away.

Three rallies in 52 games

AT Forest Hills the opening Davis Cup match, a service duel between Australia's Neale Fraser and America's Alex Olmedo, provided only three sustained rallies in 52 games. Out of four Davis Cup singles matches only one—between Olmedo and Rod Laver—really roused the crowd. This has become the rule in big tennis rather than the exception. The "big game" has become so big that it has left little or no room for tennis.

On the second day of Davis Cup competition LIFE conducted a survey among the Forest Hills spectators to learn whether they liked what they were seeing. Most had misgivings. The older ones longed for the old days when artists stood in the back court and fought it out with forehands and backhands. The younger ones, of course, had never seen anything but "big game" tennis and did not know what they were missing.

The "big game" came in just after World War II. Jack Kramer was the first to exploit it. He took it to Australia for the Davis Cup in 1946 and demonstrated its effectiveness against back-court play by clobbering the Aussies. The Australians quickly saw the light. They adopted it too and in no time were playing an even bigger game than the Americans.

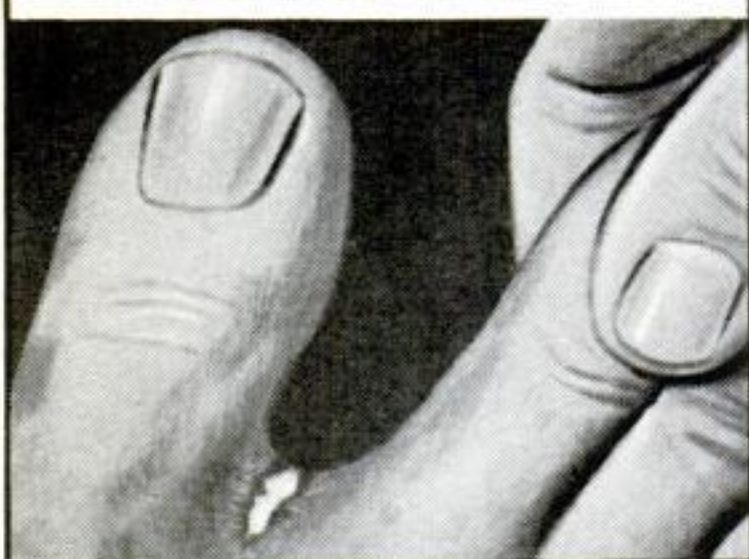
Ironically, Kramer is now the most outspoken

CONTINUED

THE POWER SERVE, ruthlessly demonstrated by Australia's Davis Cup hero, Neale Fraser, is key to "big game" which makes tennis dull for fans.

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FRED PERRY



MAUREEN CONNOLLY



JEAN BOROTRA



JACK KRAMER

CRITICAL EX-CHAMPS, alarmed at what they see happening to big tennis, were outspoken at Forest Hills. They say that rallies and ground strokes must be restored to the game but cannot agree on how this should be done.

TENNIS CONTINUED

critic of the monster he created. "The players have become robots," he said last week at Forest Hills. "It's like playing basketball with 10-foot giants. Boom-boom tennis has taken all the spice out of the game."

Among the other big names at Forest Hills there were many who agreed with Kramer. "It's terrible," said Billy Talbert, former Davis Cup star and captain. "I'd rather watch the juniors on clay. At least they play some exciting tennis."

Maureen Connolly, who dominated women's tennis before she retired in 1955, feels that some of the beauty has gone out of the game. "It has lost some of its ethereal quality. It's just brute strength now." She believes something must be done about it.

Fred Perry, England's greatest gift to tennis, has one word for the small crowds: "Ridiculous." He became disillusioned several months ago while watching the finals at Wimbledon. He put a stop watch on the match and discovered that the ball was actually in play for only 11½ minutes during the three sets. Where rallies used to go for 10 or 11 seconds, they now average three.

Jean Borotra, one of France's immortal "Musketeers" of the 1920s, is rabid about what the big serve and the volley have done to tennis. "The serve used to be a means to start the play," he exclaimed, "but now it is a means to finish it. Ground strokes have gone out of style. It's just serve and volley, serve and volley."

Everybody who has a complaint about the state of bigtime tennis also has an idea about how to remedy it. The suggestions fall into four general categories:

1) **THE ONE-BOUNCE "RULE."** Under this rule the ball must hit the ground at least once on each side of the net before it can be volleyed. This would delay net-rushing and promote rallies. Chief advocate of this rule change is Kramer, now the potentate of pro tennis. He tried it out in Denver with his pro troupe and got an enthusiastic crowd reaction. All the pros in Kramer's troupe like the idea except Pancho Gonzales, who is doing too well with his "big game" to risk a change.

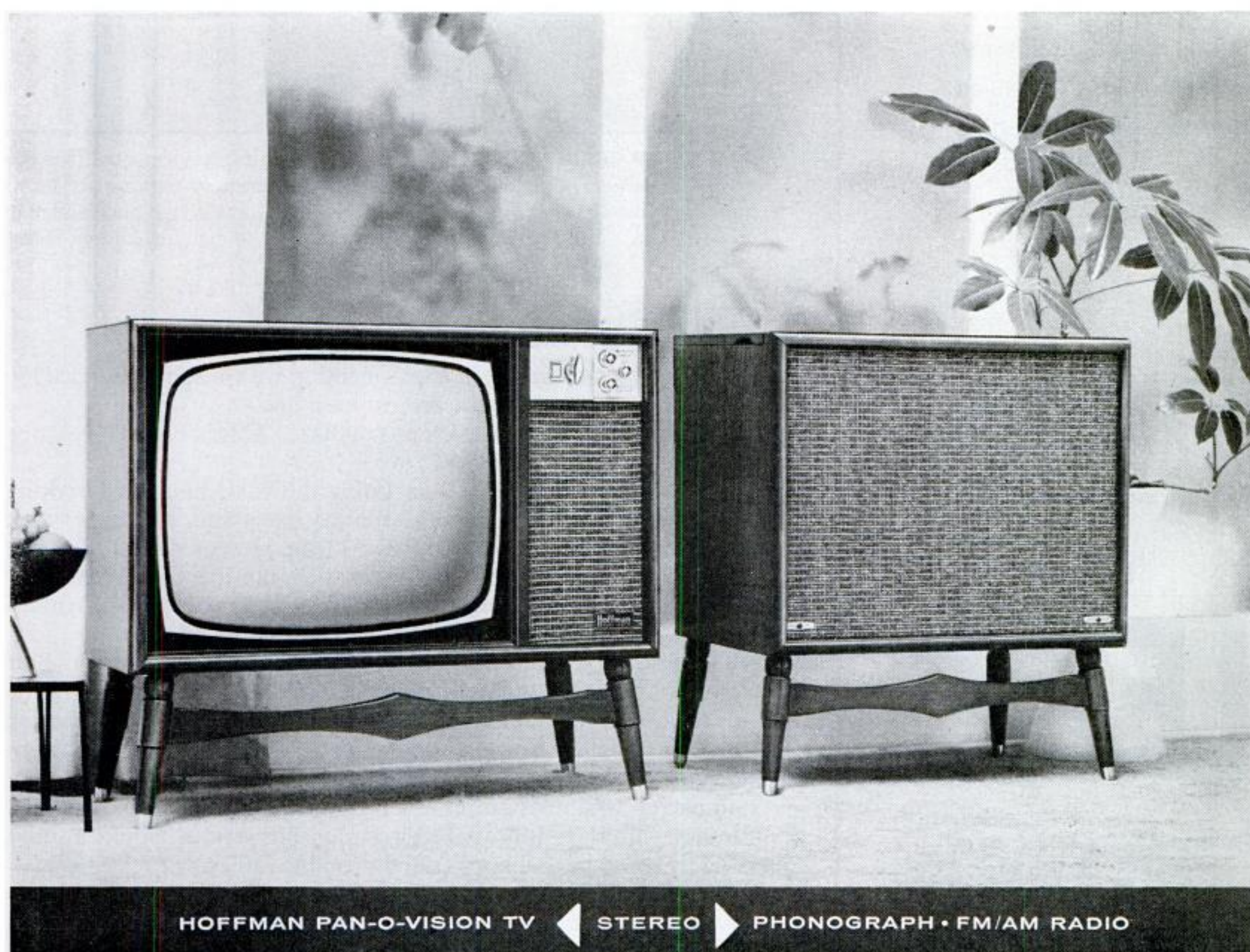
2) **A SERVICE LINE BEHIND THE BASE LINE**, or a shorter service court. Most critics, including Miss Connolly, Borotra and former singles champion Ted Schroeder, favor this scheme. By diminishing the target area or by requiring a longer shot, it would de-emphasize the service and give the receiver better than the one-in-four chance he

CONTINUED

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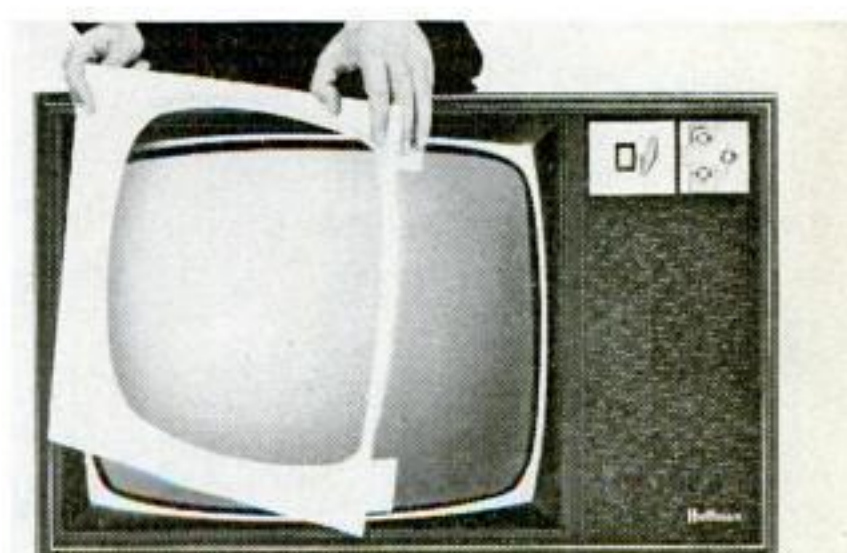
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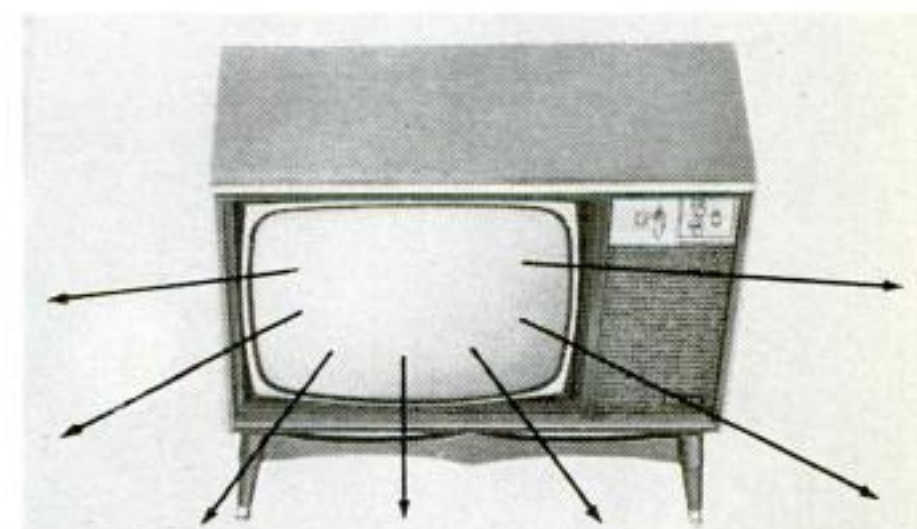
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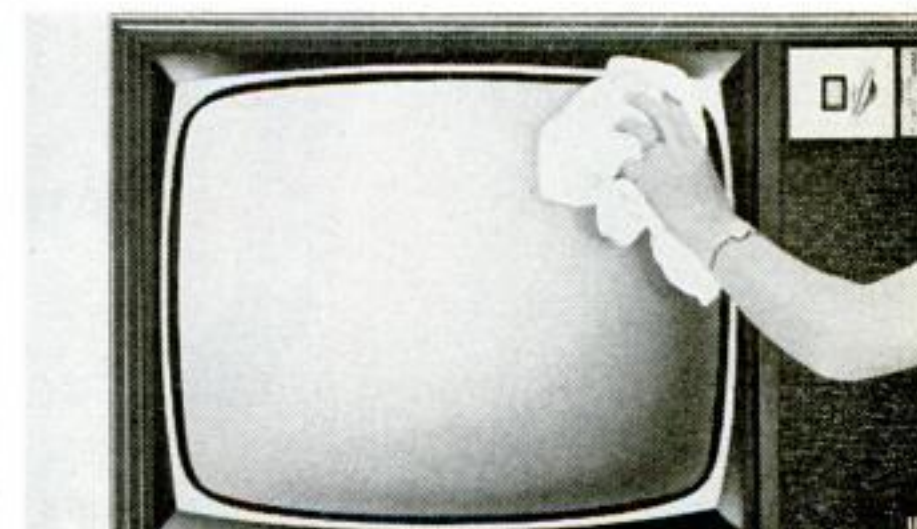
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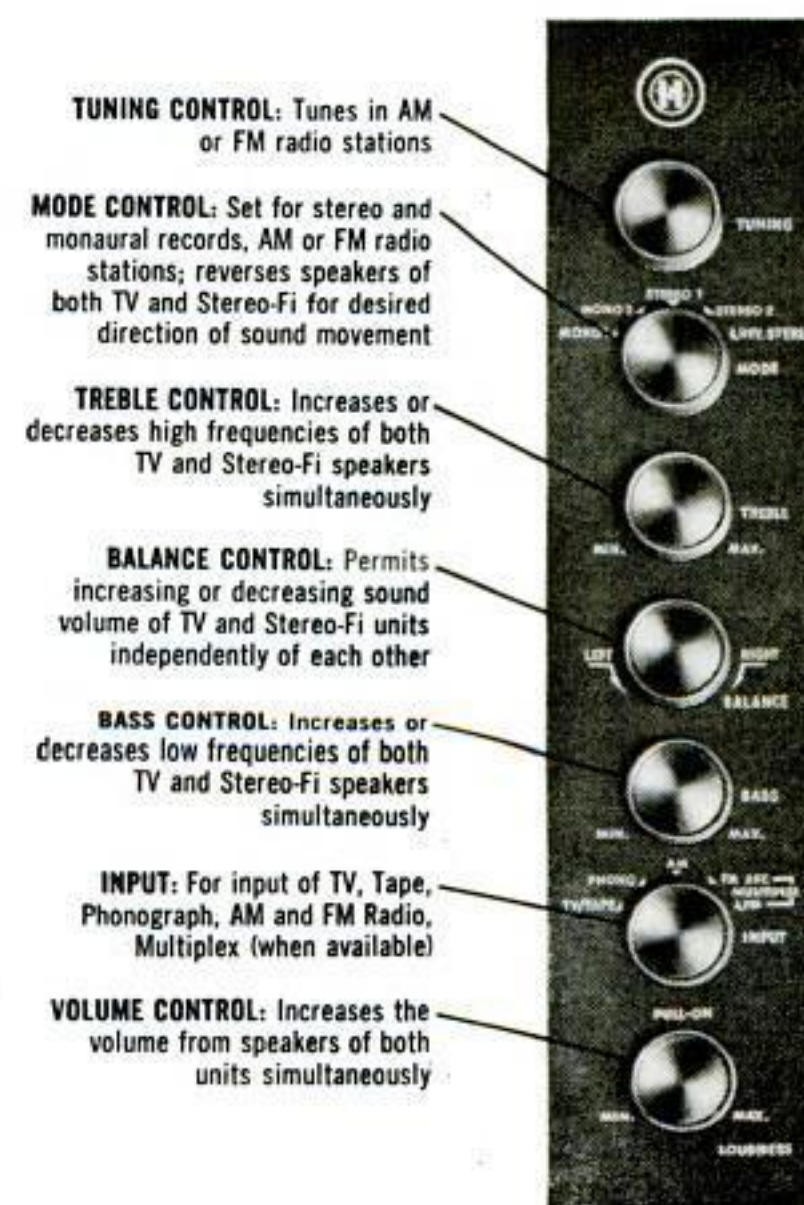


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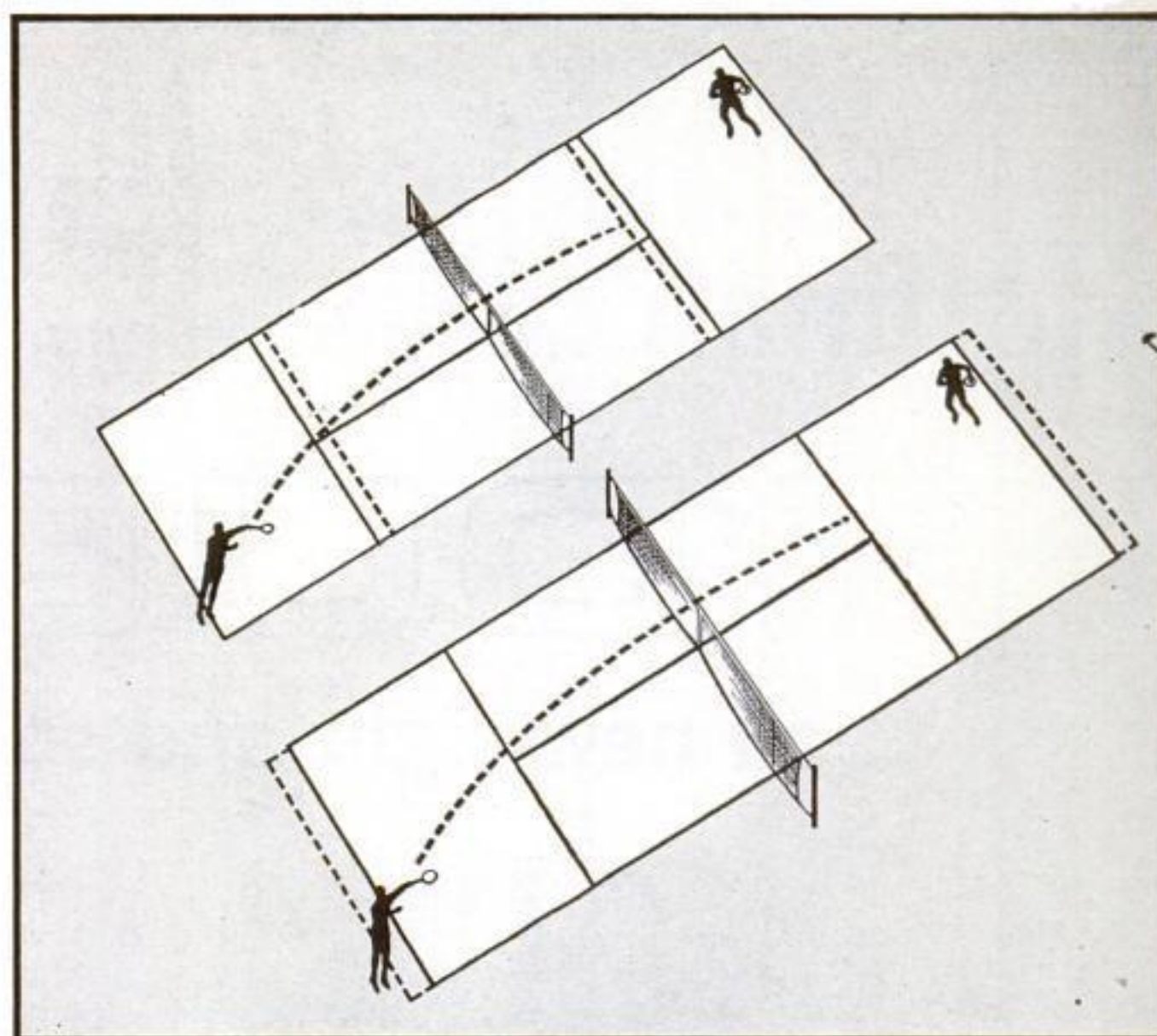


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PROPOSED COURT CHANGES include shortening service court (top diagram, dotted lines) to reduce target area of big serve, or moving server behind base line (bottom diagram, dotted lines). Latter change makes serving more difficult and reduces server's time to get to net for killing volley.

TENNIS CONTINUED

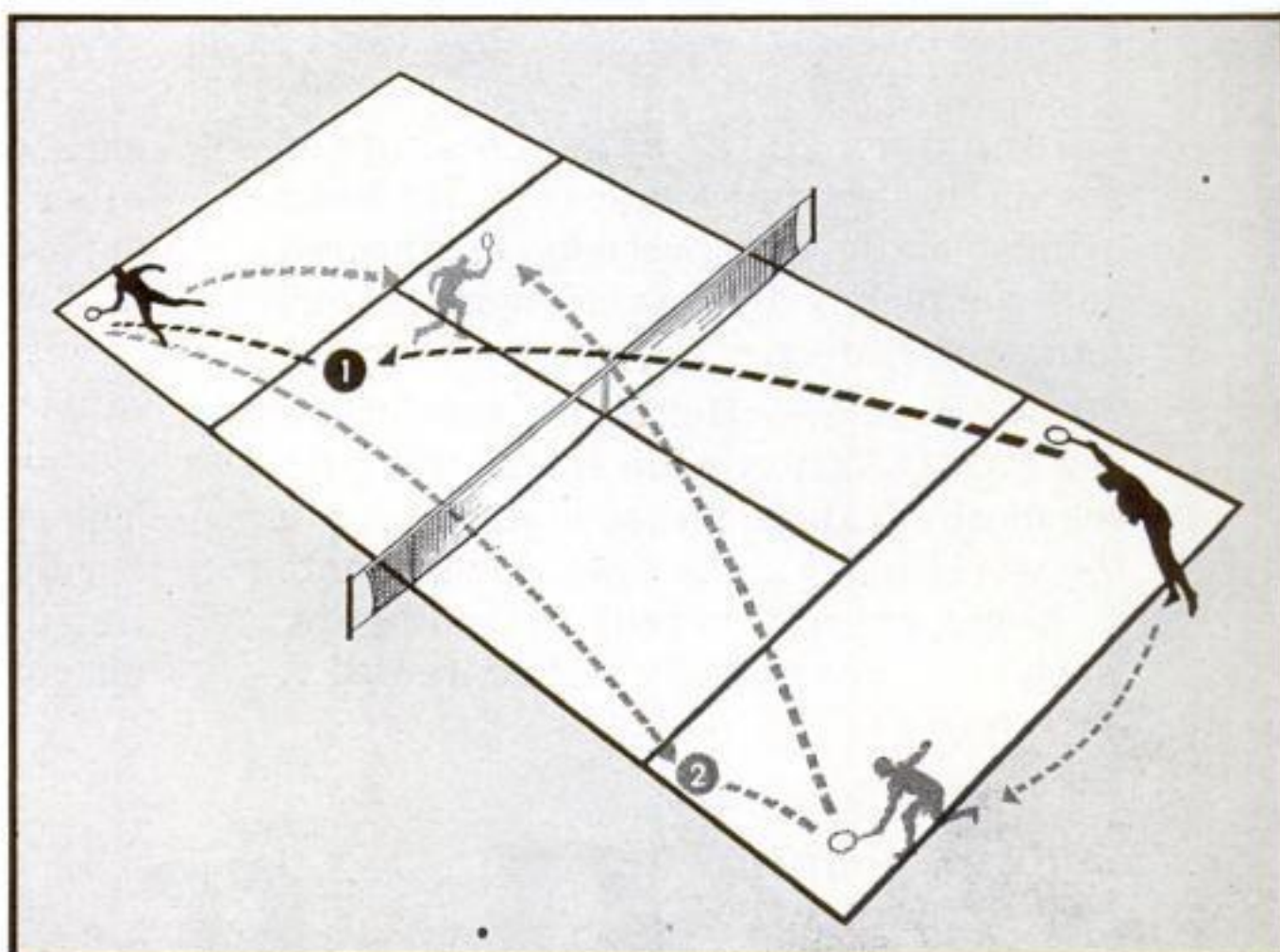
now has. Borotra has been experimenting with a special service line one to three feet behind the present base line.

3) **LOWER THE COMPRESSION OF THE BALL.** This is Fred Perry's proposal to solve the problem.

4) **A NEW SCORING SYSTEM.** Using the basic ping-pong scoring, the tennis serve would change after every five points, and there would be a running score of points instead of the present system of games. This idea is suggested by James Van Alen, president of the Newport Casino and head of tennis's Hall of Fame. "It would make tennis a more reasonable game for the spectators," says Van Alen.

Of these suggestions the one that does the least violence to the traditions of tennis is Kramer's "bounce" rule. It would not change the present court. It would give the receiver the first chance at volleying, although a big serve would put him on the defensive to start with and make it unwise to rush the net. It would not trouble the run-of-the-mill player, who does not have a big enough game to rush the net on his serve anyway. But at the championship level it would insure a greater use of ground strokes and promote rallies.

In spite of the desirability of such a rule, there is little chance that anything will be done right away. High officials of tennis hustled around Forest Hills all last week, looking as pleased as Punch with their little show. Victor Denny, president of the governing U.S. Lawn Tennis Association, thought the game was just fine the way it was. But if the crowds keep getting smaller and smaller, somebody will have to do something about the "big game."

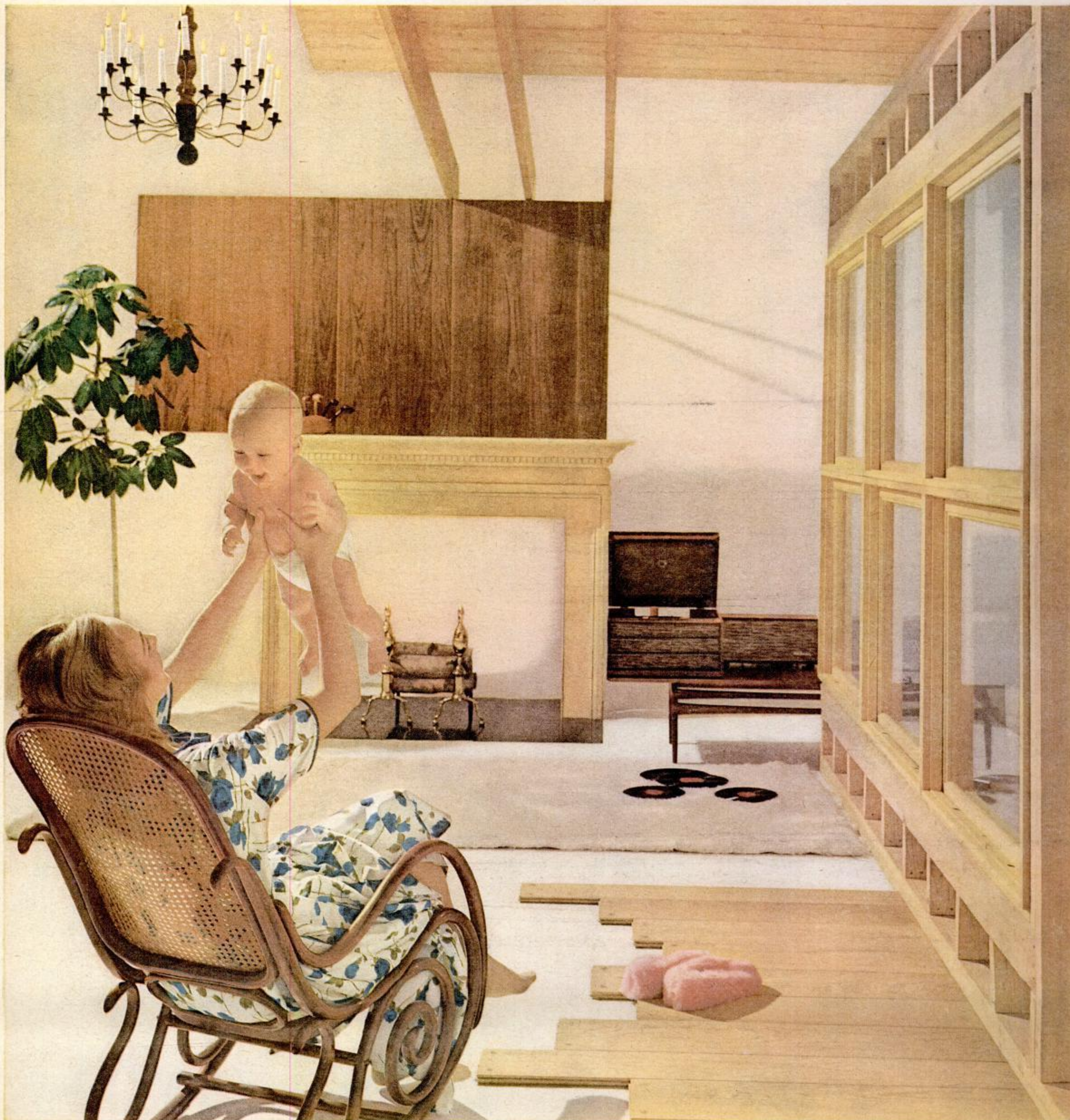


THE "BOUNCE" RULE suggested by Jack Kramer does not affect big serve but does eliminate chance to follow it up with point-ending volley. Under this rule, ball bounces normally in service court (1) but must then bounce again on server's side (2) before either player can attempt a volley.



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Ford's young creative team feels the pressure in big auto battle

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The pressure to produce a totally new car at Ford falls heaviest on Hooven and other members of a young management team of researchers, planners and engineers. They have had to come up with the right ideas quickly and rush them into the works in much less time than is usually

allowed. Their executive ordeal in giving birth to the new Ford is shown in exclusive pictures by Cornell Capa, who spent three months on the job.

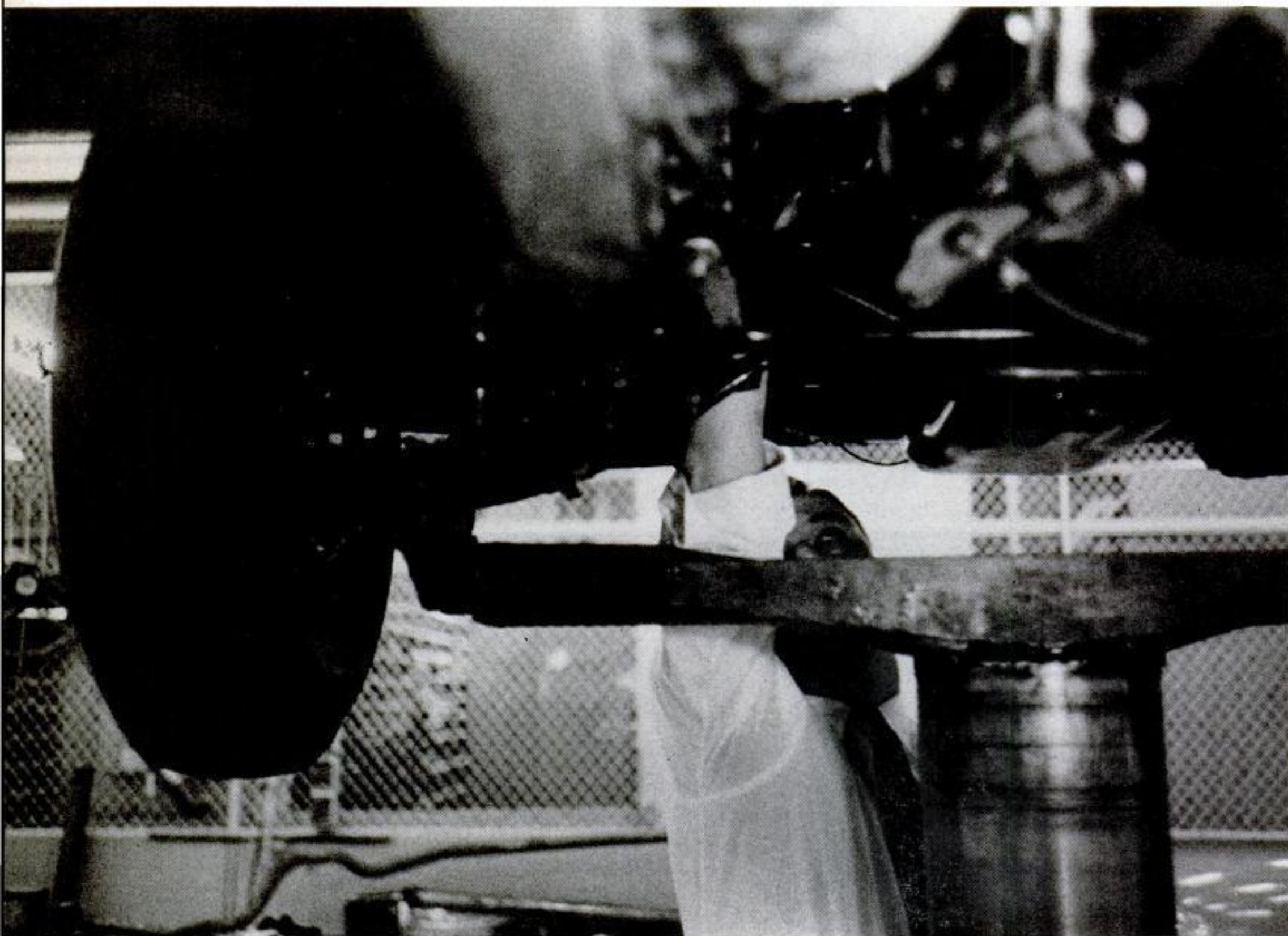
Ford's decision to make a small car came after exhaustive research into the market. The Big Three had felt the impact of the growing popularity in the U.S. of foreign cars and the success of the Rambler and the Lark. Ford's goal was to build a car that would weigh about three quarters of a ton less than conventional cars, give 50% better gas mileage and sell for under \$2,000. Ford is well aware of the risks in trying to guess public taste. It lost with its recent Edsel, scored a success with the Thunderbird.

The company's hopes are high for the trim, light auto they have called Falcon, a name chosen from some 10,000 considered. Testing, fitting and experimenting have continued right onto the assembly line, and this month the Falcon will be first out on view in the big small-car battle.

Photographed by CORNELL CAPA

CONTINUED

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DOWN-UNDER INSPECTION is given the Falcon by project's Chief Engineer Hooven at Dearborn,

Mich. test-track garage. Car parts are serviced here after undergoing long engineering tests on the track.

THE LONG EXECUTIVE SWEAT

The Falcon took shape from a blank piece of paper only after long, head-on debates between management heads assigned to the job. The project was started by Product Planner Charles Baldwin, who had helped develop Ford's successful Thunderbird. All through the gestation period he waged a constant tug of ideas with Hooven and his engineers at weekly status meetings—Baldwin trying to hold to the first design and budget, the engineers suggesting modifications.

Baldwin's product planners first proposed a five-passenger, four-cylinder, 2,000-pound

car. The engineers asked for an increase in cylinders because they felt the "four" would not have the lugging power American car-owners want. The "six" was adopted. With the larger engine the weight hit 2,350 pounds. Engineer Hooven delicately had to toe the line between cost and weight. "We had to make the car feel like a big car," he said, "but we had to have the good-handling foreign car buyers are always bragging about. The car had to avoid usual small car troubles. It had to be pussy-foot (quiet on washboard roads) and it couldn't have any hash (general noise)."



HIGH-LEVEL IMPASSE is reached in discussion over type of piston ring. Hooven (left) has just

ENGINE ERROR IS DISCUSSED BY HOOVEN (SECOND FROM LEFT), ENGINEER ROBERT STEVENSON (LEFT), FORD'S CHIEF ENGINEER HANS MATTHIAS (RIGHT)





made report on testing of various rings. Product Planner Charles Baldwin (*center*) is worried over

cost of rings Hooven recommends. Checking notes at right is Harley Copp, adjutant to Ford's chief

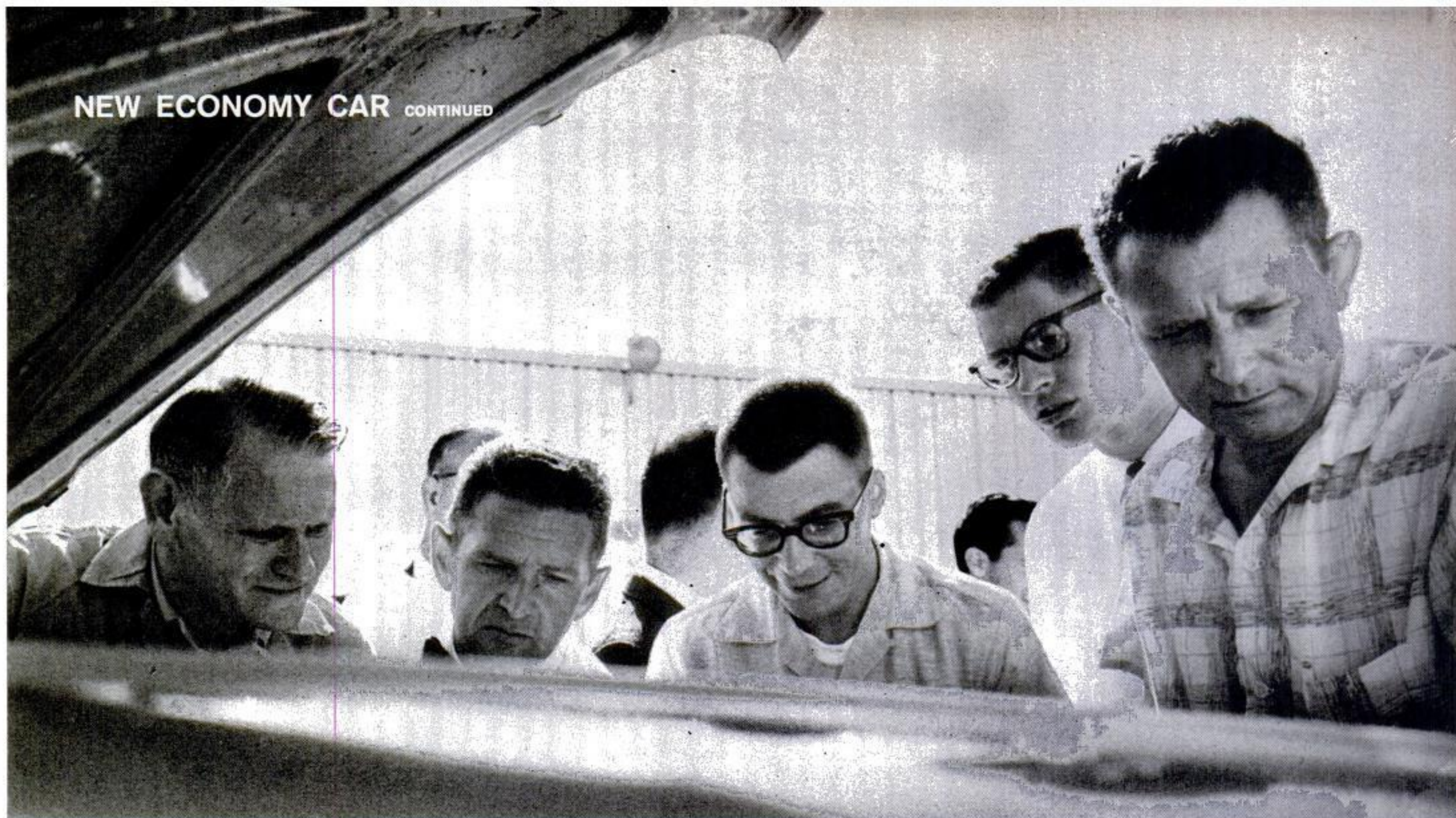
engineer. Hooven's recommendation of most expensive piston ring was finally accepted by others.

PRESENTING PROPOSALS ON REAR AXLE RATIO, HOOVEN ADDRESSES GROUP OF FORD'S TOP EXECUTIVES. IT WAS DECIDED TO GIVE BUYER CHOICE OF RATIOS



CONTINUED

NEW ECONOMY CAR CONTINUED



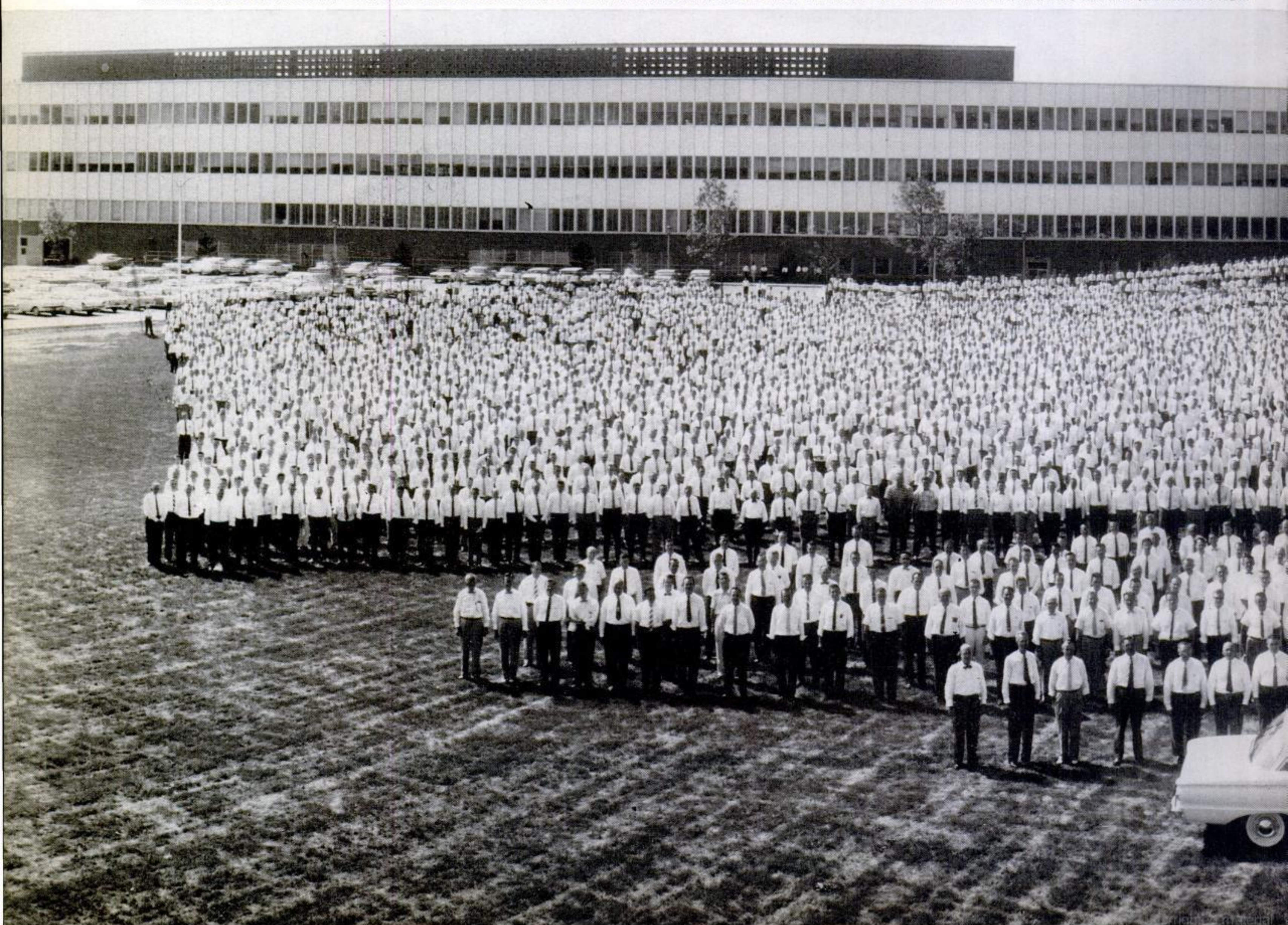
CRITICAL AUDIENCE, engineers at Ford's San Jose, Calif. plant who will be responsible for assembling Falcon, lift the hood and make their first inspection

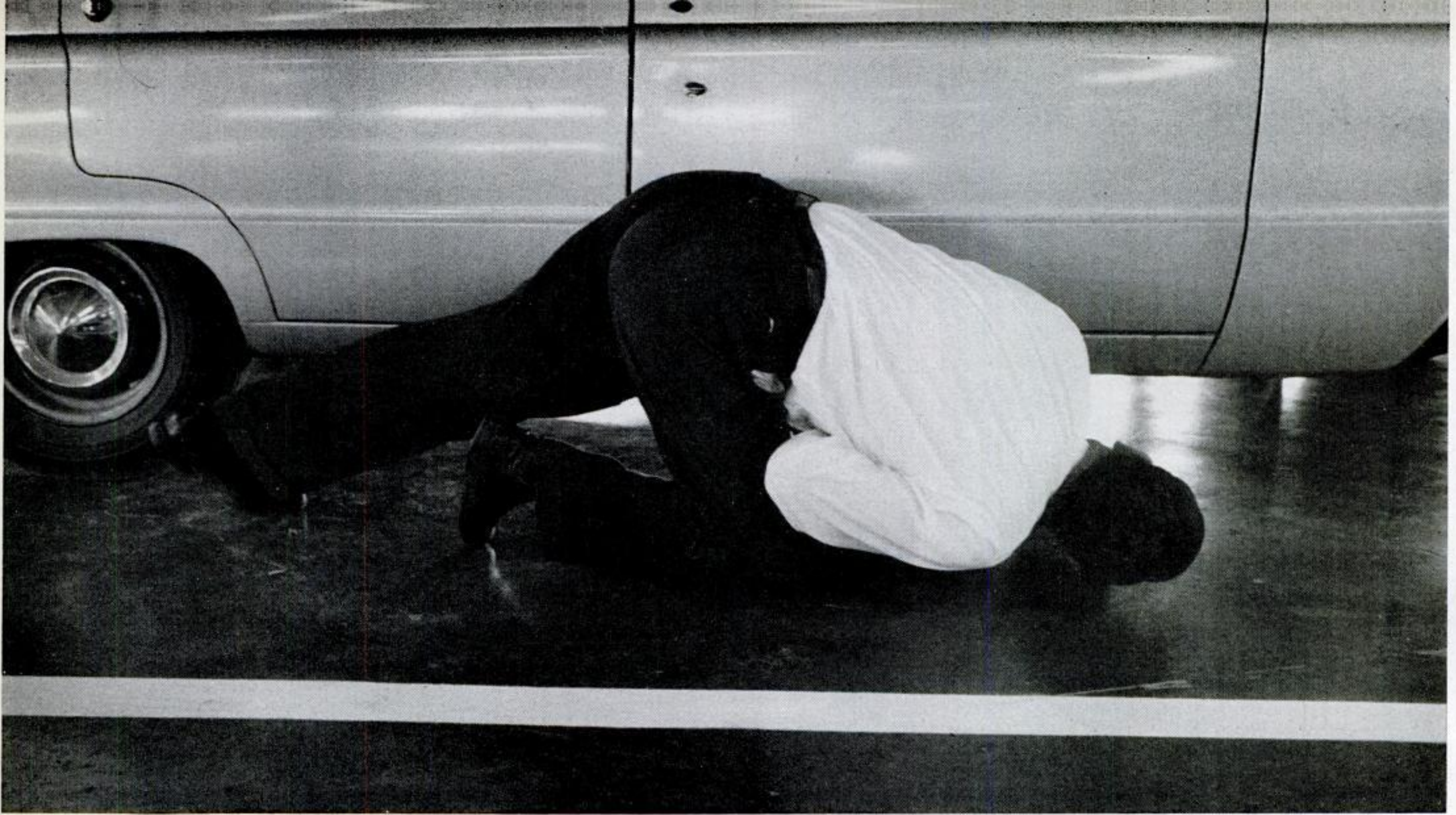
of the car's compact six-cylinder engine. To introduce engineers to the product, prototype car was driven to each of the three plants that will assemble the Falcon.

MANPOWER BACKING A BIG FALCON TEAM

The engineering task force directly assigned to the production of the Falcon numbered only 168 men. But it had free rein to call on any of the thousands of specialists (*below*) in the Ford engineering system. Engineer Hooven, who built a home-made car, powered with a motor bike engine, at age 13 and worked on the line at the Rouge plant when he left

FINISHED FALCON AND MANPOWER THAT ENGINEERED IT ASSEMBLE AT DEARBORN. SINGLE ROW NEAREST CAR IS ENGINEERING HIGH COMMAND (SEVENTH FROM





CURIOUS ENGINEER at Lorain, Ohio plant gets down for a close look at underside of a prototype Falcon. Last week the first Falcon for consumer sales was run

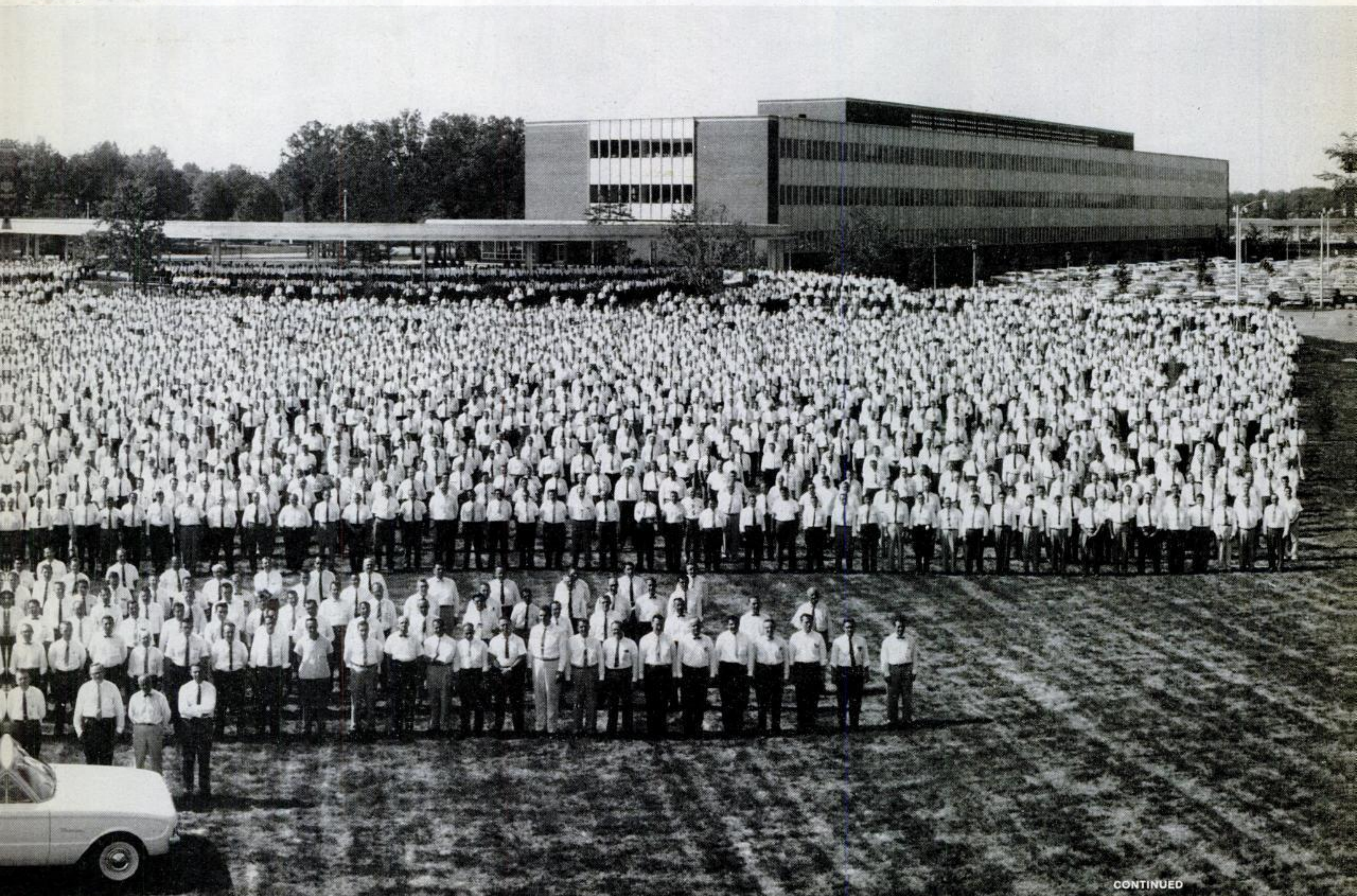
off Lorain assembly line, which had been converted in less than a month from Ford production. Others will follow at the Kansas City, Mo. and San Jose factories.

high school, hand-picked his crack staff. "They're all young fellows," says Hooven, "and the majority of them don't know all the reasons why things can't be done. So they just go ahead and do it."

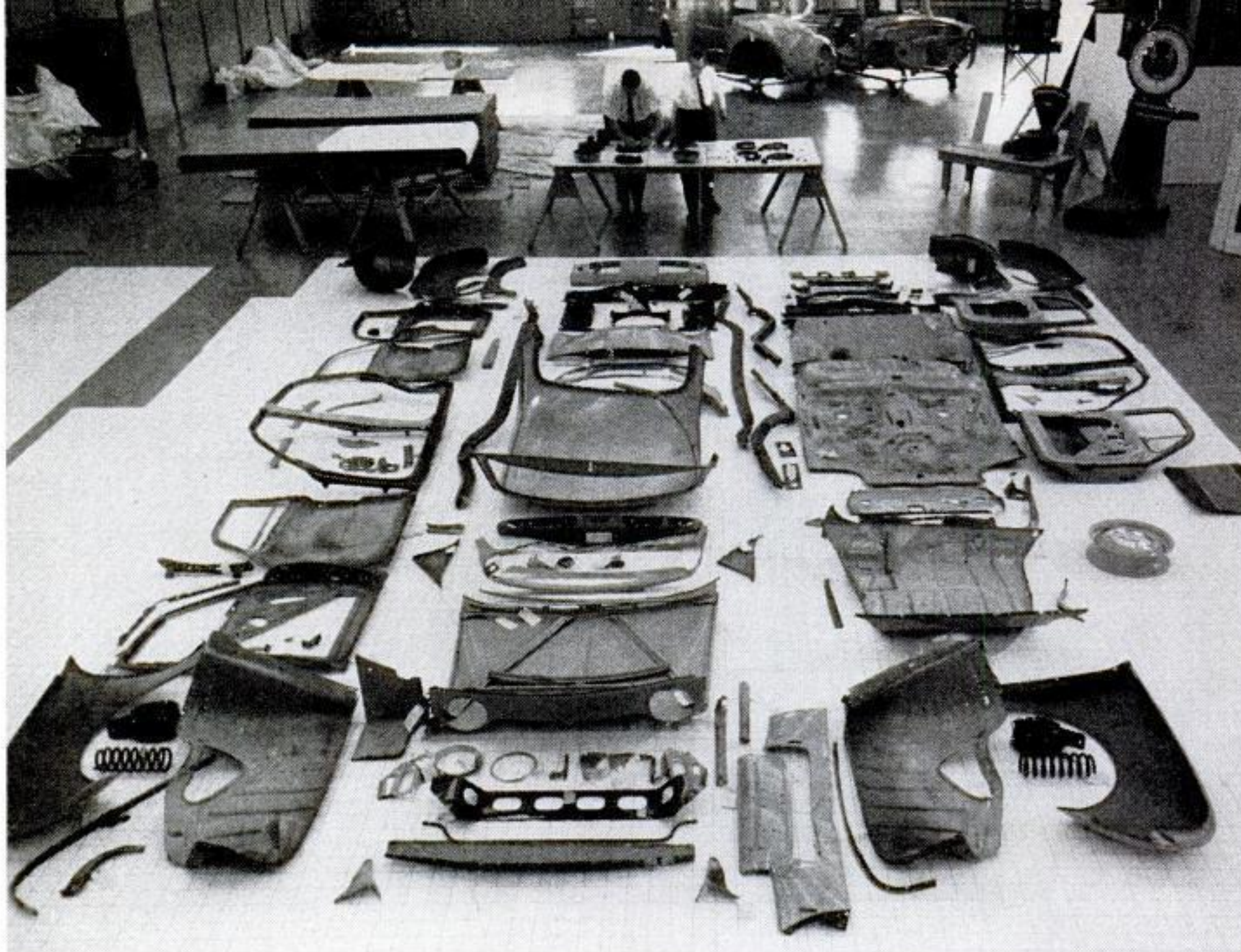
Hooven and everyone else on the Falcon assignment had to hurry. They had 19 months from the time the Falcon project was approved until

"job one," the first production car, came off the line. (The Thunderbird took two years.) It wasn't until a late spring road test that it was discovered the engine smoked at high altitudes. And only nine weeks ago did Hooven lick the car's heater problem. His engineers had built such an efficient engine that it did not provide enough hot air to feed the heater.

LEFT, HOOVEN). NEXT ARE THE 168 MEN WHO COORDINATED THE ENGINEERING. MASSED BEHIND ARE 7,000 OF FORD'S 10,700 ENGINEERING STAFF MEMBERS



CONTINUED



STRIPPED RIVAL, parts of a Renault are spread out for analysis at Ford's Dearborn headquarters.

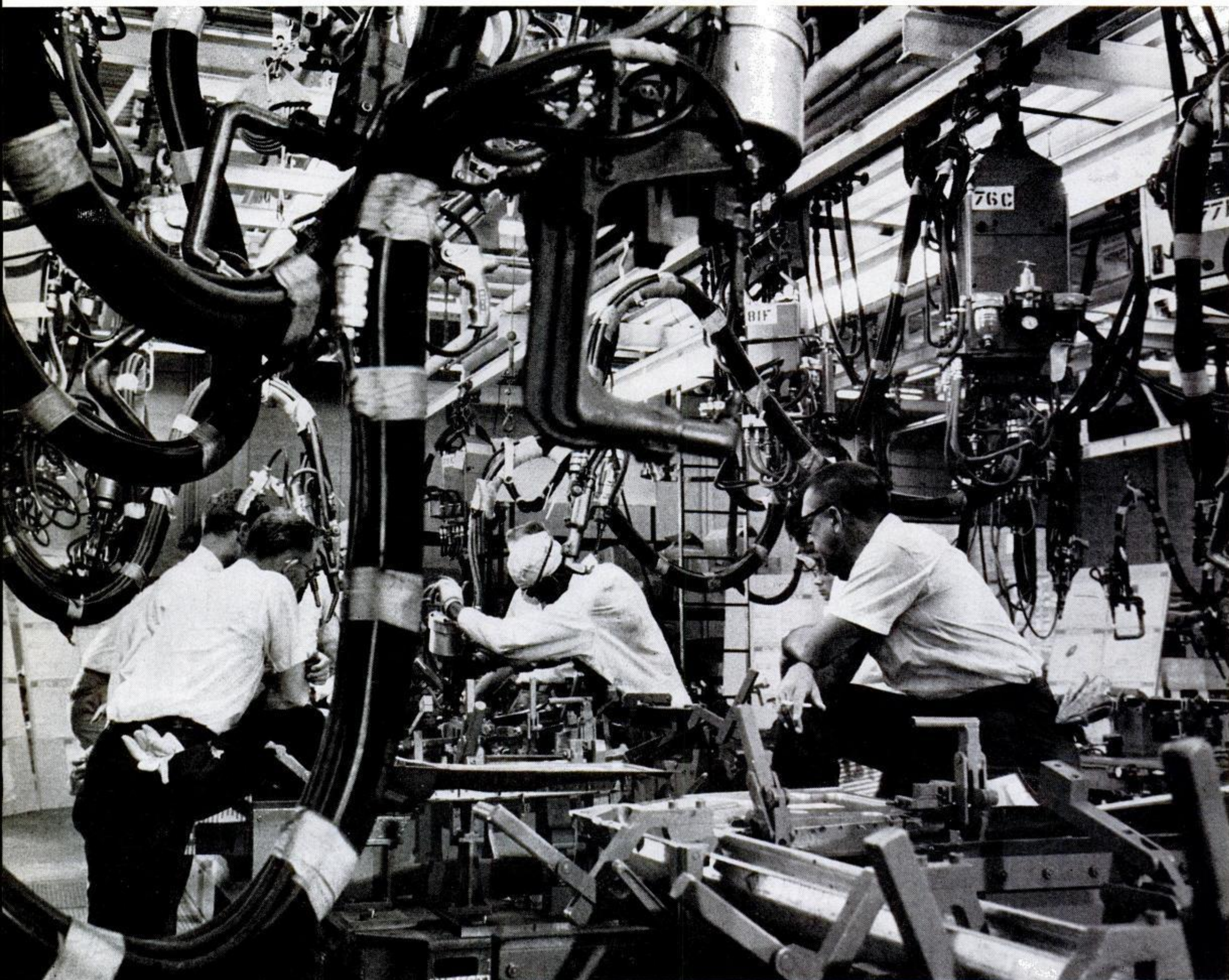
All popular foreign cars plus Rambler and Lark were taken apart in what engineers call an "autopsy."

NEW ECONOMY CAR CONTINUED

ON THE LINE, ON THE ROAD

"You have to tailor a new car on the highway," says Hooven. "There comes a point when you no longer can work it out on paper." Hooven and his engineers did much of the final fitting on the road between Detroit and Cincinnati, which approximates the gamut of typical U.S. driving conditions. The Falcon was constantly being returned and stripped for study and refitting. Near production it developed a hum in the drive shaft at high speeds. The noise occurred only when the car was pushed to the maximum but the engineers demanded it be corrected.

Hooven himself gave the Falcon its final evaluation on the road. The chief responsibility for the car then went to the market managers whose job it is to push the product against competition that is already lined up and turning out its own brand-new small cars (*next page*).



ASSEMBLY LINE UNIT, maze of machinery for the welding of the body side panels of the Falcon, is put to test at Ford's Quality Control Center in Dearborn.

A pilot Falcon production line, which had to be reproduced at each assembly plant, was given thorough inspection and tailoring just as the car itself was.



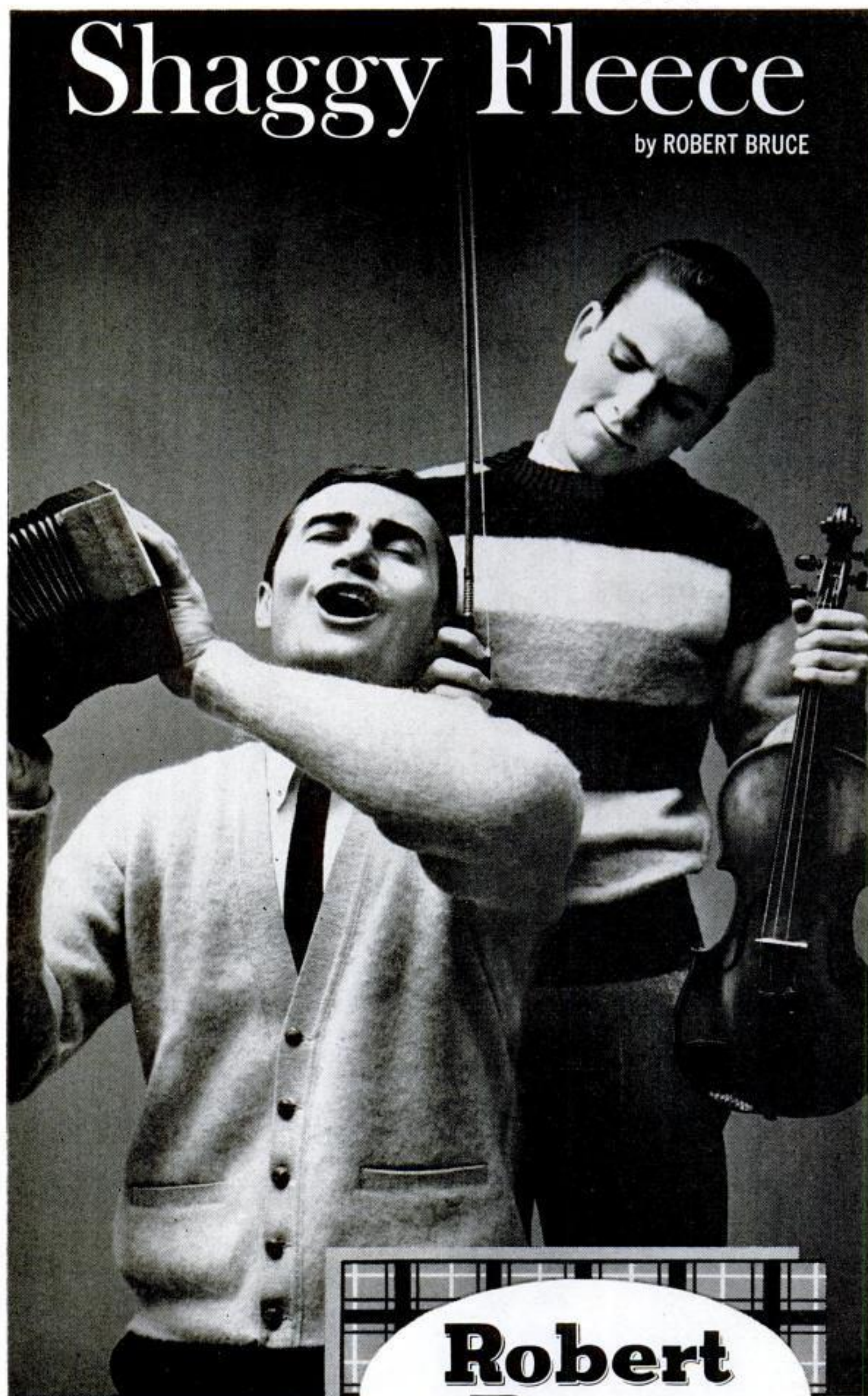
IN MOUNTAIN TEST, a Falcon prototype takes the upgrade through Molas Divide Pass in Colorado during long test run that ended at Ford's hot-weather

proving grounds in Kingman, Ariz. Antenna on roof is for two-way radio so engineers could compare notes with other Ford models that made experimental trip.

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The important, continental look . . . bulky sweaters by Robert Bruce knitted of the finest American wools and mohair. Men's cardigan and pullover, \$12.95. Boy's cardigan, \$10.95. Boy's pullover, \$7.98. Juniors, \$5.98. Matching "Shaggy Fleece" caps and mammoth mufflers in bold stripes. At fine stores everywhere.

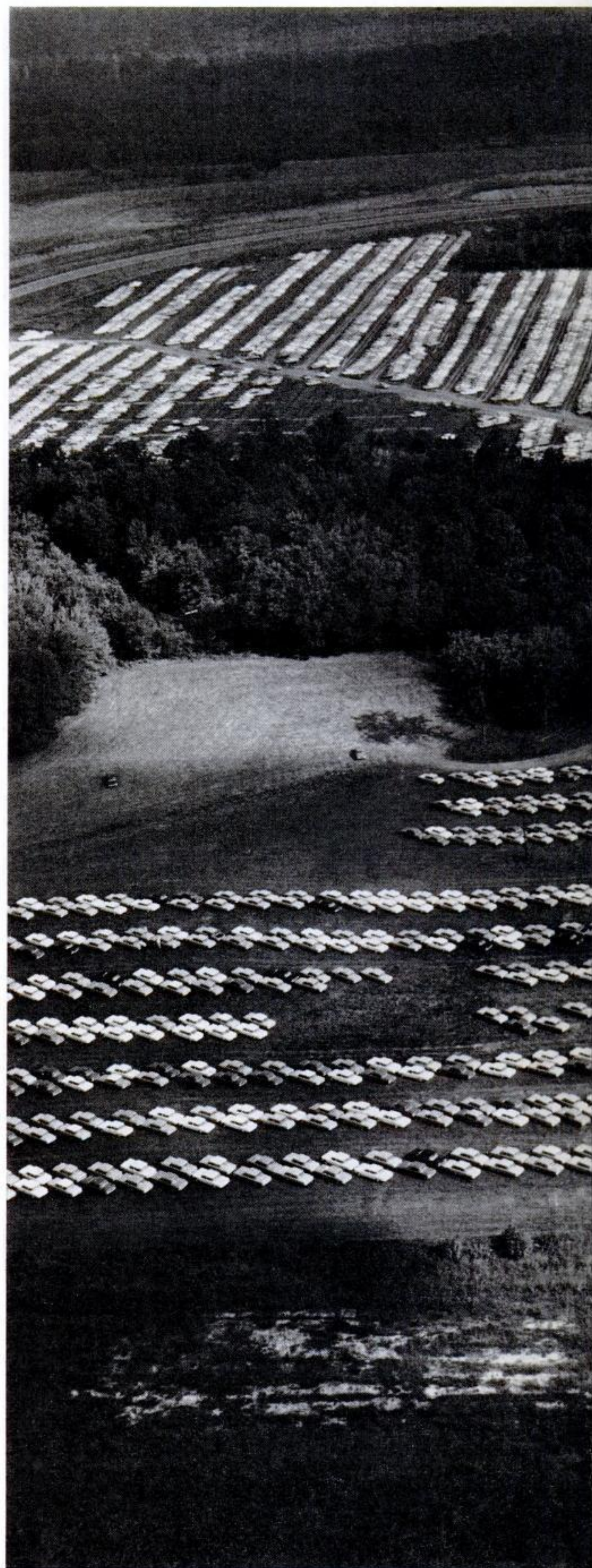


This advertisement prepared in conjunction with the American Sheep Producers Council Inc.

ROBERT BRUCE INC. • KNITWEAR FOR MEN, BOYS AND JUNIORS • PHILA. 33, PENNA.

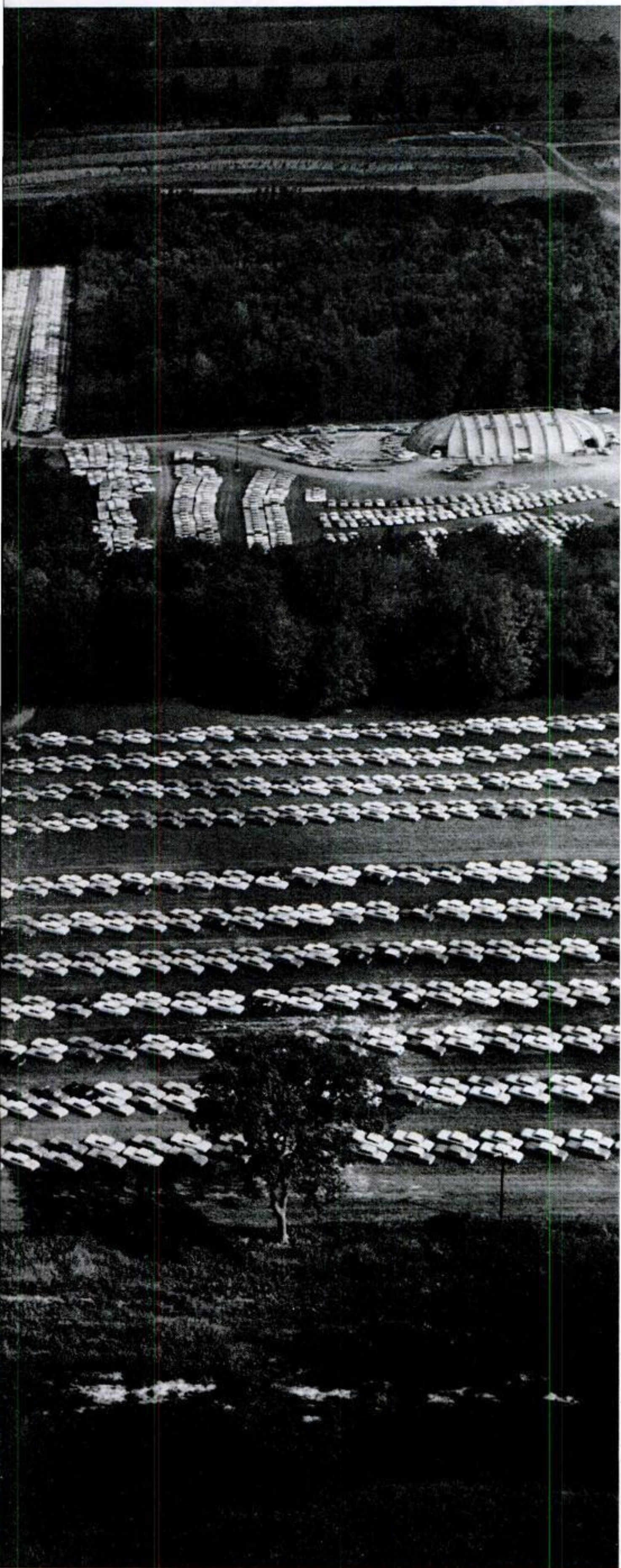
NEW ECONOMY CAR CONTINUED

GM'S NEW CORVAIR,



ASSEMBLED FOR DELIVERY, thousands of General Motors' compact Corvairs cover the Milford, Mich. proving grounds where they had been driven at night from the assembly plant. GM is well ahead of rivals Ford and Chrysler in the production of small cars, will have cars available at dealers early next

PRODUCTION LEADER



month. Corvair is the most revolutionary of Big Three's little three, with an air-cooled, six-cylinder engine mounted in the rear. Chrysler's economy model, Valiant, has the most horsepower and weight of the three, stresses sports-car styling. It goes on public view in October. All cars seat six passengers.

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You'll find luxury everywhere aboard the *Super Chief*. Elegant accommodations. Spacious lounges. Gracious dining, in the famous Fred Harvey manner. If you're accustomed to special attention, you'll be right at home on the *Super Chief*.



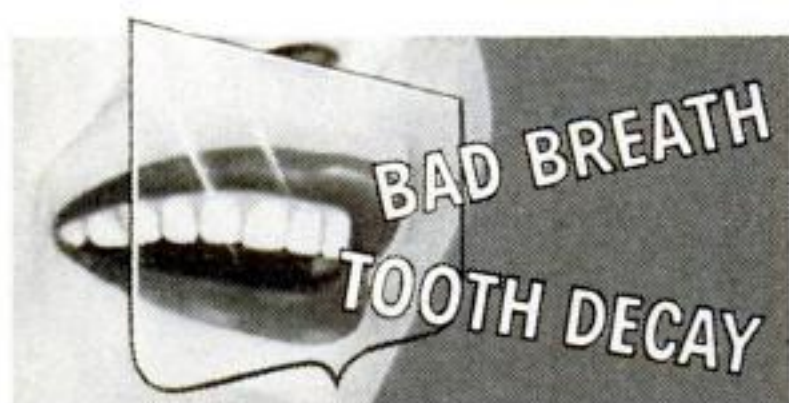
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Colgate Dental Cream with Gardol CLEANS YOUR BREATH while it CLEANS YOUR TEETH!



YAËL DAYAN AND HER FATHER, WITH PATCH OVER A MISSING EYE, VISIT BASE WHERE SHE WAS DRAFTED INTO ARMY AT 17 AND BEGAN WRITING HER BOOK

Provocative Girl of Israel

A 20-year-old Israeli girl, daughter of her country's greatest military hero, is raising a rumpus in her native land with a realistic and sexy novel of army life. In doing so, she gives insights into a conflict between young and old generations which is deeply stirring Israel.

The author is Yaël Dayan, who, like most Israeli girls, has served in the army. Her father, General Moshe Dayan, was a brilliant leader in the 1956 campaign against Egypt. Her novel, *New Face in the Mirror*, is selling well in the U.S. where critics are drawing comparisons with Françoise Sagan. Both write semiautobiographically, but where Sagan's world is decadent, Dayan depicts pioneers struggling in a promised land.

Israel's elders are shocked by the book's candor, and cannot understand why its people act as they do. But her contemporaries say the book shows real understanding of Israel's strong-minded younger generation, the native-born *sabras*. For an account of the *sabras*, see page 170.



HOLDING PROPOSED MOVIE SCRIPT OF NOVEL, YAËL SITS ON ROME STEPS →

CONTINUED

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ISRAELI GIRL CONTINUED



IN ARMY UNIFORM, Yaël Dayan stands by her parents' home near Tel Aviv. Broken column at rear is part of old ruins she and her father dug up.



IN NEW DRESS, part of a wardrobe she got just before leaving Israel for visits to Europe and the U.S., Yaël stands while a salesgirl adjusts the back.



THE FIRST WORD IN COMFORT!

Durene Socks, knit shirts and underwear for boys, girls, grown-ups! Cooler in summer, warmer in winter. Because Durene evaporates moisture, keeps skin healthfully dry. Durene is the quality mercerized cotton yarn that looks better, feels better, wears better longer. Look for the label.

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What bra is so beloved by women, that they bought 16 MILLION this year? What bra has everything that is usually priced dollars more, yet costs as little as a dollar? What bra is sold ONLY AT YOUR VARIETY STORE (once fondly called the "five and dime") and not elsewhere? What bra comes in the loveliest styles and fabrics; in all sizes and cups to fit you and you and you, too?

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NATURELX GIRLIES
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CONTINUED



New woman in town

Suddenly—like 20% of American families every year—you are uprooted from the life you know.

Overnight you must find a new doctor and a new hairdresser, a new plumber and a new paper boy, a new veterinarian.

You must make new friends, learn which are the good restaurants, open charge accounts—and discover a baby-sitter.

Amid the flux, you can, however, move precisely and confidently in one area. That is when you go shopping. Then you're not confronted by strangers, but by old friends. The brands that line the shelves are the self-same ones you knew

back home, two thousand miles away.

And this familiarity applies whether it is a can of baked beans or a new washing machine. These are the brands you've come to know through experience—and were probably introduced to by advertising in magazines like this one.

So here, at least, you are on solid ground. You are getting a value you've come to expect of the products you see advertised in magazines: confidence in the product.

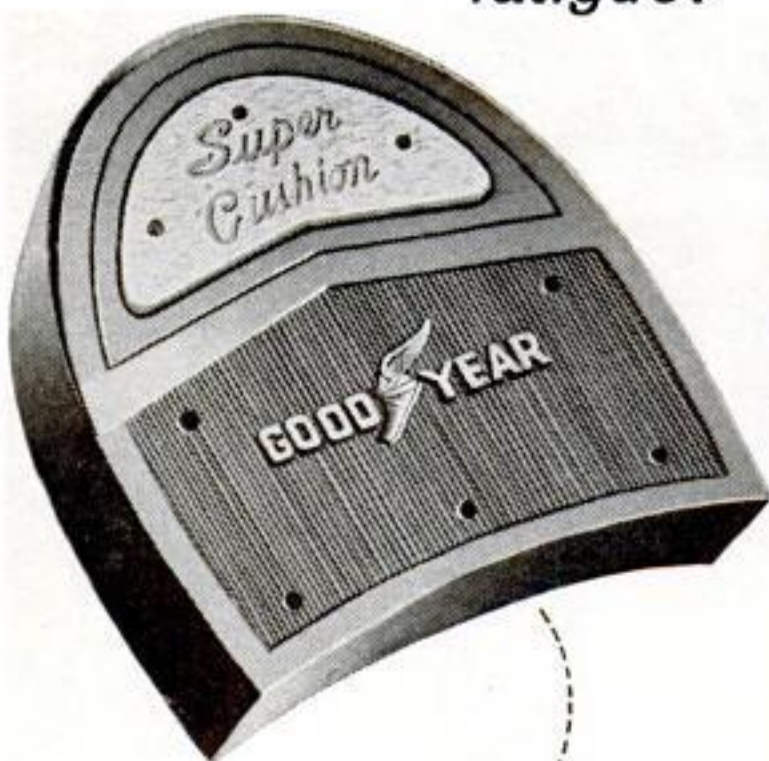
An island in a sea of transition—but an island made more comfortable, thanks to advertisements in magazines.

Another example of how advertising helps everybody. TIME INC., publisher of LIFE, TIME, FORTUNE, SPORTS ILLUSTRATED, HOUSE & HOME, ARCHITECTURAL FORUM and International Editions of LIFE and TIME.

NEW Super Cushion Heel by GOOD YEAR



**ABSORBS
"STEP-SHOCK"**
... cuts walking
fatigue!



Tough but soft Elasto-Crepe insert for extra walking comfort ... famous Goodyear Rubber for longer, more even wear!

MR. NEOLITE says:

"To get the most for your money, ask your Shoe Repairman for Goodyear Super Cushion Heels, NEOLITE Soles or Half Soles. Step on it!"



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NEOLITE, SUPER CUSHION AND ELASTO-CREPE, T.M.'S—
THE GOODYEAR TIRE & RUBBER CO., AKRON, OHIO

ISRAELI GIRL CONTINUED



AMID SABRAS (CACTUS), Yaël Dayan stands on the dry uncultivated plain near Tel Aviv. The cacti have given those born in Israel their name.

A Tough Tenderness

Only a fraction of Israel's present Hebrew population lived there before the great Jewish "ingathering" began after independence was won in 1948 and the native-born Israelis are a decided minority. Those actually born there are called *sabras* since they are thought to be like the cactus pictured above, tough and prickly on the outside, yet tender and sweet within. They are Israel's future. Surprisingly soon, they may be its present. For by its force and fervor this new generation may dominate Israel before long. The *sabras* are quite unlike anything that Jewry has known in all its long history, and Yaël Dayan's novel is the clearest expression of their viewpoint.

The *sabras* talk, think and act differently from older Jews. For one thing, they are much franker about sex. An Israeli critic complained that Yaël and her characters were guilty of "undressing in Jaffa Road" (Jerusalem's main street). For another, the *sabras* feel far more responsibility for their nation's actual survival than do the youth of most countries. Yet because of the pressure on them, they are often rough and cynical where their elders want them polite and idealistic.

A great deal of the difference between the two generations involves the Israeli army. The *sabras* are the young people of the only democracy in the world that drafts its girls for the army. Older people cannot easily adjust to a girl recruit calling her gun "another arm or leg." Yet the novel also shows what a key role the army plays in integrating Israel's many diverse elements. The population includes men, women and children from 80 geographic areas whose customs and languages range from the most culturally advanced parts of Europe to backward desert regions such as Yemen. For Israeli youth, the compulsory term of service in the army is often the best possible melting pot.



DRIVING A JEEP, Yaël shows off skill which she says makes her "the best jeep driver in all Israel." But friends consider her a notorious chance-taker.

If You Want To STOP SMOKING Airline Pilot Tells How!



Roger Don Rae is a senior pilot for TWA. He says: "Bantron allowed me to stop smoking without noticing it. Today I am free of the habit. I tell all my friends who want to stop smoking—try Bantron!"

Here at last is a safe, new product, developed at a great American University, that has helped thousands stop smoking. In a series of clinical tests, published in a leading Medical Journal*, scientists reported that 4 out of 5 men and women who wanted to quit smoking stopped within 5 days when they took Bantron.

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Taken as directed Bantron is perfectly safe. It acts as a substitute for the nicotine in your system which gives you a craving for tobacco. Now at drug stores without prescription. Price \$1.25.

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Scientific medication works fast to

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STOPS SCRATCHING IN MINUTES

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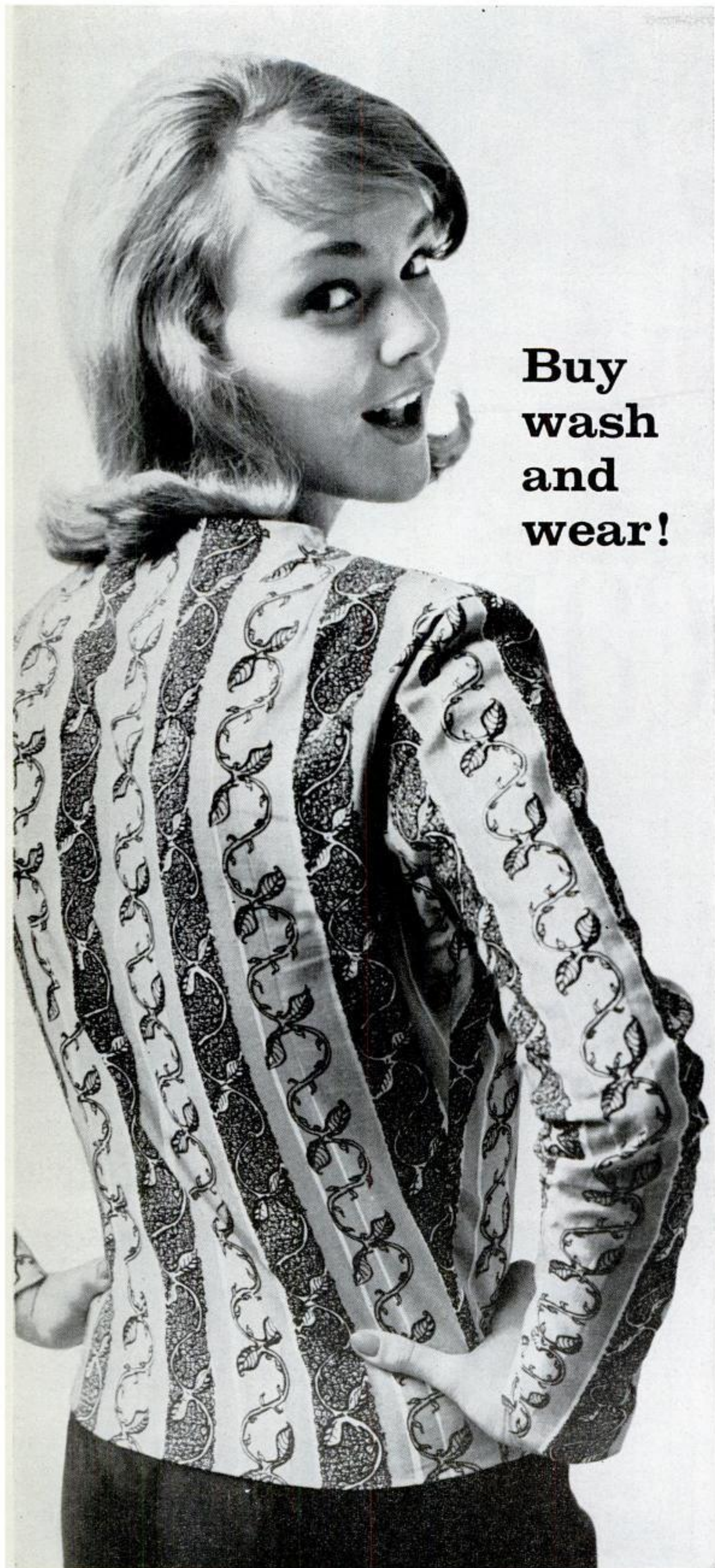
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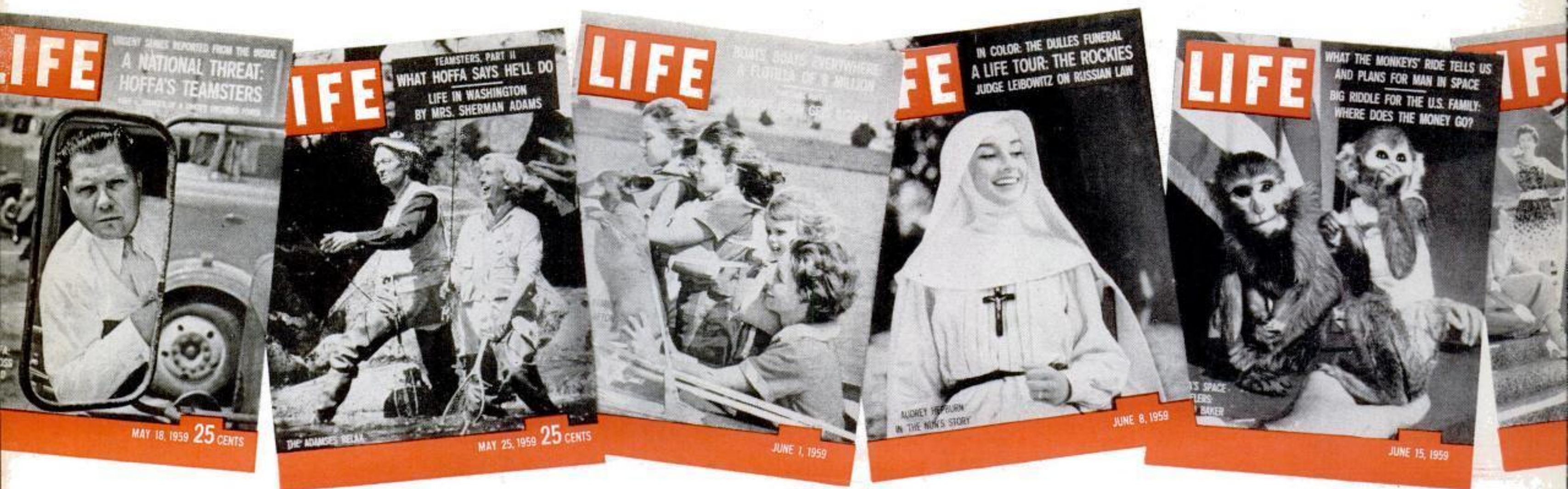


**Not
wash
and
beware!**

No “Sanforized” label and it can be “farewell fit.” Wash some wash-and-wear and it’s wearable no longer. So before you buy wash-and-wear, look for the “Sanforized” label just as you do on all other cottons.

CLUETT, PEARBODY & CO., INC., PERMITS USE OF ITS TRADEMARK “SANFORIZED”, ADOPTED IN 1930, ONLY ON FABRICS WHICH MEET THIS COMPANY’S RIGID SHRINKAGE REQUIREMENTS. FABRICS BEARING THE TRADEMARK “SANFORIZED” WILL NOT SHRINK MORE THAN 1% BY THE GOVERNMENT’S STANDARD TEST.

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Head back to your college... or your career with Arrow

"College and Career" Sport Shirts. They're in deep, earthy madder colors... tints of glistening rock and jugged cliff... patterns inspired by the deep gorge. Authentic. University-styled. Button-down, back collar button and box-pleat. Arrow Sport Shirts are "Sanforized" labeled... your assurance of lasting fit and comfort. At your Arrow retailer. Now.

From left to right: (1) The sweater look—cotton and acetate knit shirt with foulard insert. Washable, \$5.95.

(2) Unusual print design in wash and wear fabric. (3) Miniature Dan River plaid, wash and wear.

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YOU LOOK BETTER IN AN *ARROW* SPORT SHIRT



In traditional Hickory Day exuberance, Hickory Island wives compete in the slipper-kicking contest. Idea is to see who can send her slipper farthest distance.

Islanders Kick Up Heels

Once a year the 55 families on Hickory Island near Detroit kick up their heels in a day of old-fashioned late summer fun. On Hickory Day the community, on an island at the Lake Erie end of the Detroit River, is open territory for pranks and games. It started this year, in traditional fashion, in the morning when children paraded past every house on the island blowing horns to make sure no one could sleep. The day proceeded through games, in which fathers tossed eggs to each other; contests in which women crammed pies into the mouths of men who had to hold their hands behind their backs; and canoe races which, as always, ended with everybody getting swamped.

The long enjoyable day came to a close with a dance where grownups exercised a prerogative. "Children under 13 are welcome," the program read, "until 10 o'clock." By that time, however, most islanders were ready for bed, quite happy that Hickory Day came but once a year.

Motto was painted on baby Mead Stone's shoes by parents who think the day an all-family celebration.

CONTINUED





In boys' free-for-all event, Donnie Mahaney tries to bust the balloon on Alan Ladomer's belt. Idea is to break someone else's balloon while keeping own intact.

Up to their necks, canoers using hands instead of paddles are swamped, which happens every year. The wooden paddle was in bottom of a canoe and floated by.

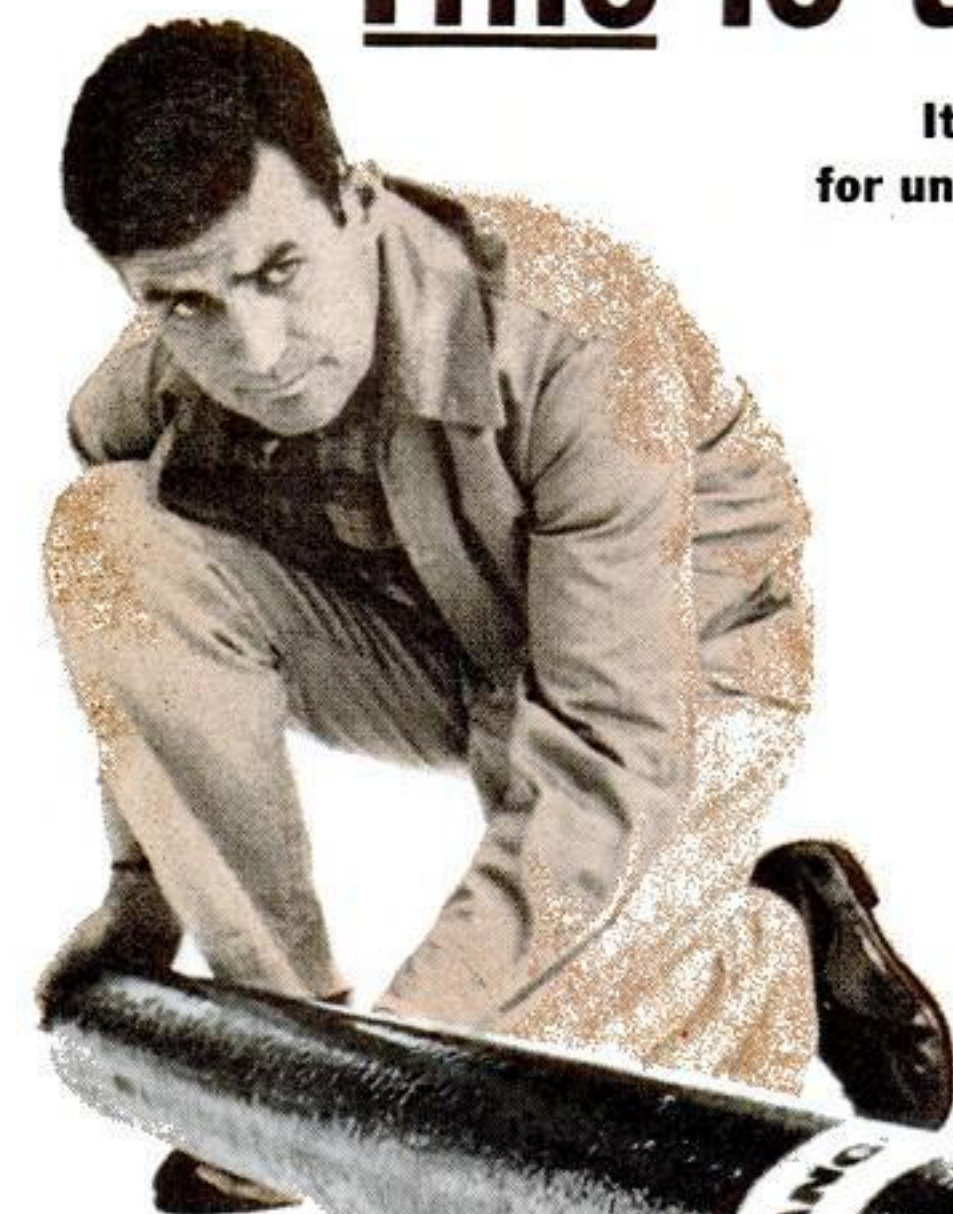


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It's **genuine Orangeburg Pipe**. The modern, low-cost answer for underground drainage problems. 350 million feet now in use.

Roots in the sewer? Water in your cellar? Flooded lawn? Ask for *genuine Orangeburg*: *Root-Proof Pipe and Fittings* for sewer lines, downspout run-offs... *Perforated Pipe* for foundation drains, septic tank filter beds. Orangeburg's long, light lengths are easy to handle and join. A few hammer blows seal joints root-proof, watertight. No cement, no calking, no compounds. And tough, non-metallic Orangeburg *lasts!* Lines 50 years old are going strong today. Be sure to get *genuine Orangeburg*. See your Dealer or write Dept. L-99 for free illustrated booklet, "Drain That Rain Water Away."

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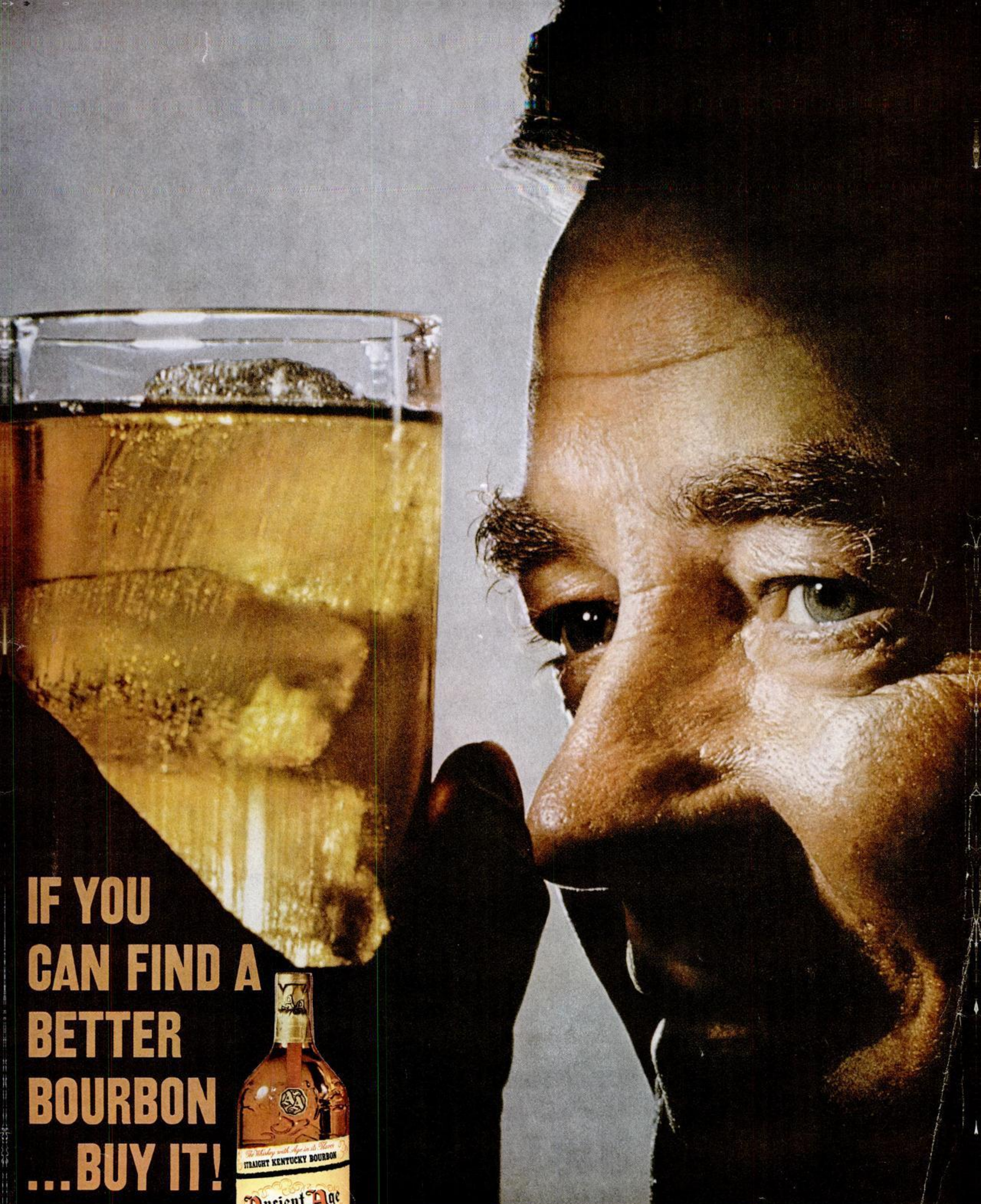




A BEAT SWIMMER FROM BORNEO

The *Nasalis larvatus*, popularly called a proboscis monkey because of the way his nose grows, had got in far over his head. Taking a dip off the shore of his native Borneo, he was swept out into the South China Sea. A yacht, on a day cruise out of Kuching, spotted the floundering animal and threw out a life

belt. It was ignored. The yacht lowered a dinghy and finally the fatigued swimmer climbed aboard. He sat panting on the edge, with great salt-water belches coming from his huge stomach. Then, having got his wind and having made a wondrous spectacle of himself, he plopped overboard and beat it back to Borneo.



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Salem's new cigarette paper discovery "air-softens" every puff

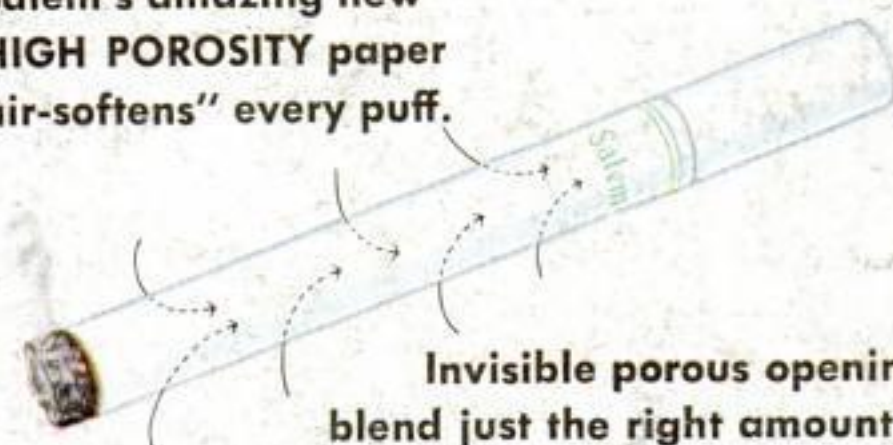
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Salem refreshes your taste